



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 204757

TO: Satya Gudibande
Location: Remsen 3a20 / 3c18
Thursday, October 19, 2006
Art Unit: 1654
Phone: 571-272-8146
Serial Number: 09 / 971929

From: Jan Delaval
Location: EIC 1700
Remsen 4a30
Phone: 571-272-2504

jan.delaval@uspto.gov

Search Notes

Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: SATYA GUDIBANDE Examiner #: 81066 Date: 10/17/06
 Art Unit: 1654 Phone Number: 2-8146 Serial Number: 09/171,929
 Location (Bldg/Room#): 3A 20 (Mailbox #): 3C 18 Results Format Preferred (circle): PAPER DISK

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: Process for producing an Article Composed

Inventors (please provide full names): Takao Nawayuki et al

Earliest Priority Date: 10/1/2000

Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search claim 1

*and the elected species with reference to
claim 1.*

Please call me if you have any questions.

J. Laver

Satya

*Please forward this request to
Jan Laver*

STAFF USE ONLYSearcher: JanSearcher Phone #: 22504

Searcher Location: _____

Date Searcher Picked Up: 10/19/06Date Completed: 10/19/06Searcher Prep & Review Time: 20Online Time: 70

Type of Search

 NA Sequence (#) AA Sequence (#) Structure (#) Bibliographic Litigation Fulltext Other

Vendors and cost where applicable

 STN Dialog Questel/Orbit Lexis/Nexis Westlaw WWW/Internet In-house sequence systems Commercial Oligomer Score/Length Interference SPDI Encode/Transl Other (specify)

=> fil reg
FILE 'REGISTRY' ENTERED AT 07:19:08 ON 19 OCT 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 18 OCT 2006 HIGHEST RN 910777-14-9
DICTIONARY FILE UPDATES: 18 OCT 2006 HIGHEST RN 910777-14-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

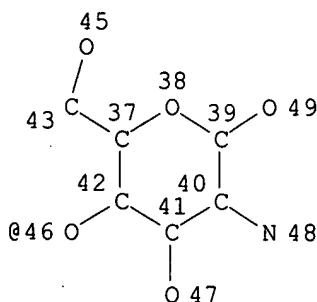
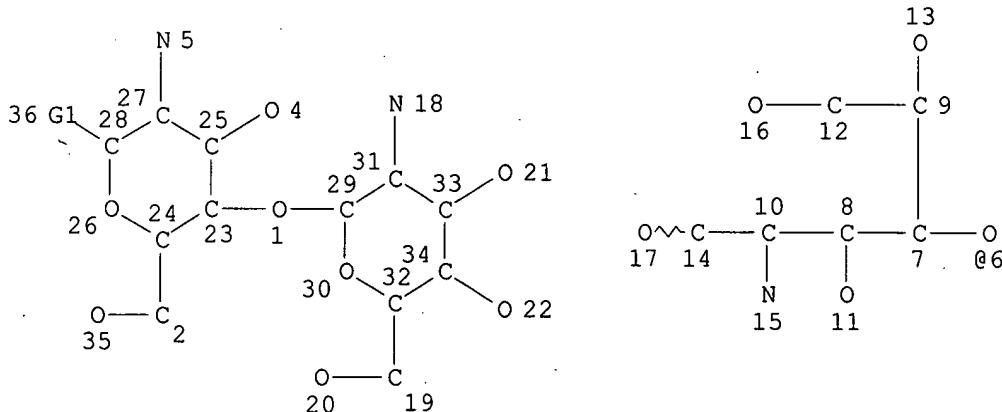
TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> d sta que 130
L27 STR



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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

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NUMBER OF NODES IS 47

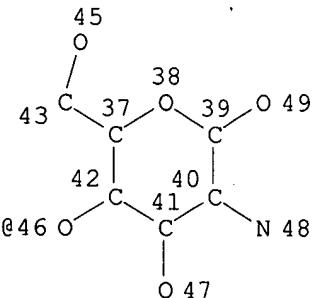
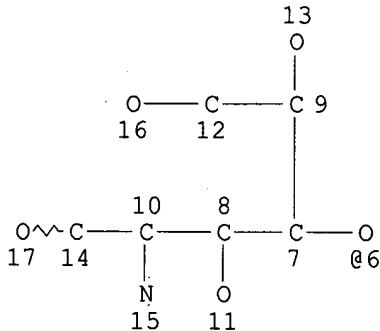
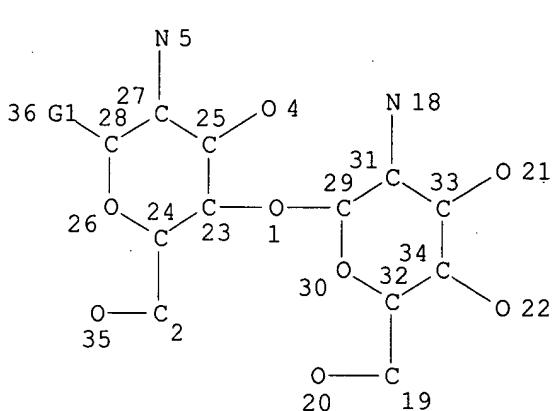
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L27 STR



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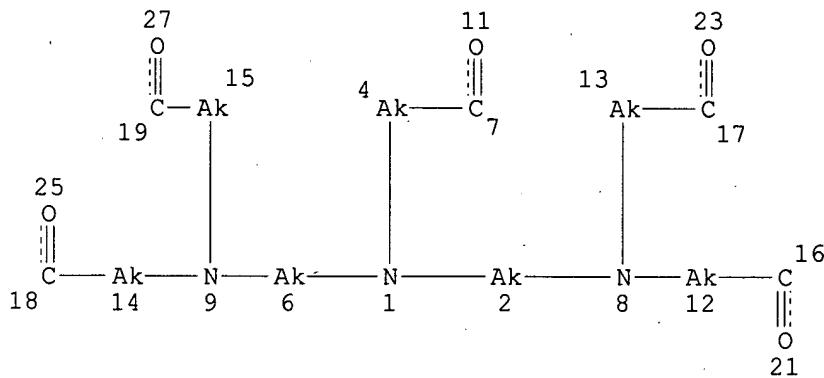
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L36 STR



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DEFAULT ECLEVEL IS LIMITED

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STEREO ATTRIBUTES: NONE

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100.0% PROCESSED 1204 ITERATIONS

20 ANSWERS

SEARCH TIME: 00.00.01

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SET COST OFF

FILE 'HCA' ENTERED AT 06:21:20 ON 19 OCT 2006

L1 1 S US20020077456/PN OR (US2001-971929# OR JP2000-310626)/AP, PRN
 E TAKANO/AU
 E TAKANO N/AU

L2 91 S E3, E18
 E NAOYUKI/AU
 E NAO YUKI/AU
 E NAKAMURA/AU

L3 4 S E3
 E NAKAMURA D/AU

L4 48 S E3, E7, E8
 E NAKAMURA NAME/AU
 E DAISAKU/AU
 E NIHON/PA, CS
 E NIHON MED/PA, CS

L5 108 S E14-E26
 E SUMITO/PA, CS

L6 93032 S E55, E56 OR SUMITOMO?/PA, CS
 SEL RN L1

FILE 'REGISTRY' ENTERED AT 06:27:55 ON 19 OCT 2006

L7 22 S E1-E22
 L8 6 S L7 AND (C60H100N12O40 OR C48H79N9O34 OR C66H115N15O34)

L9 7 S (C60H100N12040 OR C48H79N9034 OR C66H115N15034) NOT L8
 L10 13 S L8, L9
 L11 1 S 67-43-6
 L12 1 S 60-00-4
 L13 1 S 60239-18-1
 L14 1 S 23911-25-3
 L15 1 S 23911-26-4
 L16 2 S L7 AND NC2OC2/ES NOT L14, L15
 L17 2 S 148690-82-8 OR 411229-70-4
 L18 5 S 115724-92-0 OR 411229-75-9 OR 151677-09-7 OR 138885-99-1 OR 1
 L19 3 S L7 NOT L8-L18
 L20 1 S 84354-98-3
 L21 1 S 84354-98-3/CRN
 L22 2 S L20, L21
 L23 2 S C18H37N3O13/MF
 L24 1 S L23 NOT L22
 L25 0 S 835626-40-9/CRN
 L26 3 S L22, L23, L24
 L27 STR
 L28 50 S L27
 L29 1204 S L27 FUL
 SAV L29 SATYA971/A
 L30 2 S L29 AND NC2NC2NC2NC2/ES
 L31 1 S L29 AND NC2OC2/ES
 L32 STR
 L33 0 S L32 SAM SUB=L29
 L34 STR L32
 L35 1 S L34 SAM SUB=L29
 L36 STR L34
 L37 1 S L36 SAM SUB=L29
 L38 20 S L36 FUL SUB=L29
 SAV L38 SATYA971A/A
 L39 11 S L38 NOT L10
 L40 0 S L39 NOT (C6/ES OR P/ELS)
 L41 2 S L10 NOT L30, L38
 L42 9 S L10 AND L38
 L43 0 S L29 AND (63215 OR 55514)/RID
 L44 2 S L27 CSS SAM SUB=L29
 L45 27 S L27 CSS FUL SUB=L29
 SAV L45 SATYA971B/A
 L46 9 S L45 AND 1/NC
 L47 17 S L45 NOT L26, L46
 SEL RN 7 16 17
 L48 3 S E23-E25
 L49 13 S L26, L46, L48

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L50 2 S L30 OR L42
 L51 3 S L49 AND L11-L13
 L52 1 S L49 AND L14-L17
 L53 4 S L50, L51, L52
 L54 3 S L53 AND L1-L6
 L55 4 S L53, L54

FILE 'USPATFULL' ENTERED AT 07:18:27 ON 19 OCT 2006

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 L57 4 S L49 AND L11-L13
 L58 1 S L49 AND L14-L17
 L59 4 S L56-L58

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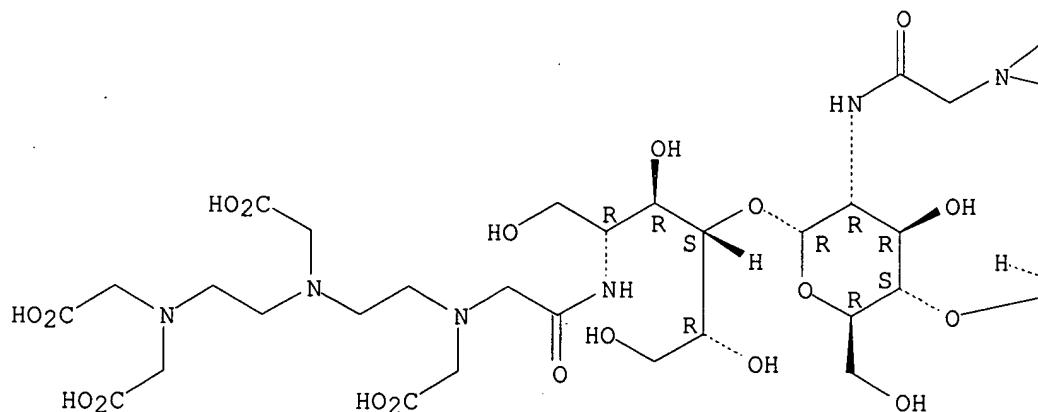
=> s 130 or 142
 L60 11 L30 OR L42

=> d ide can tot

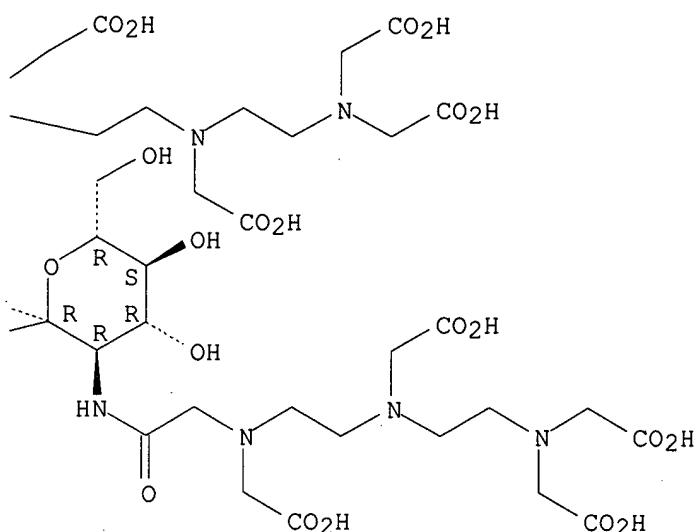
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 RN 868055-15-6 REGISTRY
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 FS STEREOSEARCH
 MF C60 H100 N12 O40
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

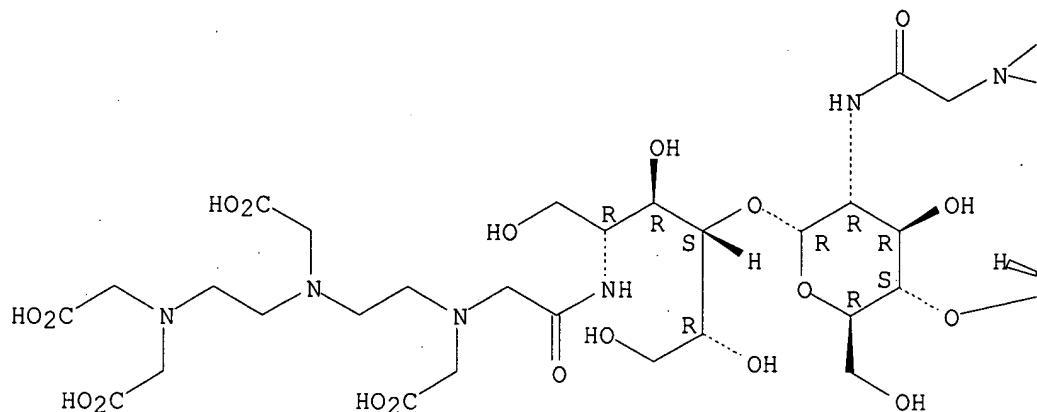
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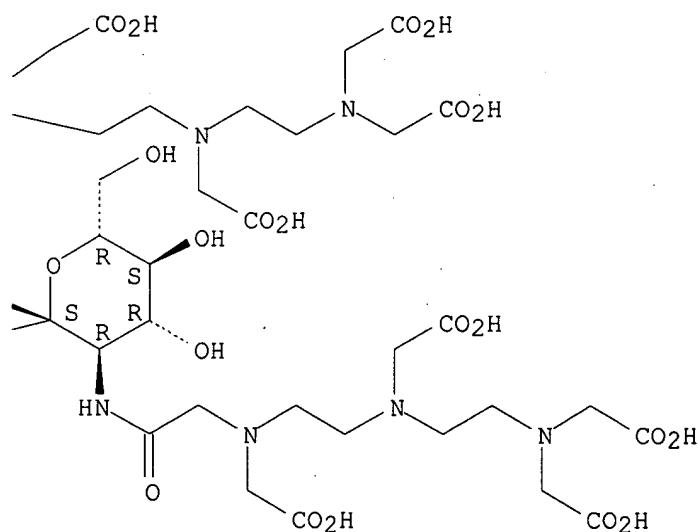
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 RN 868055-14-5 REGISTRY
 ED Entered STN: 15 Nov 2005
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 FS STEREOSEARCH
 MF C60 H100 N12 O40
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry. Rotation (+).

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PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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L60 ANSWER 3 OF 11 REGISTRY COPYRIGHT 2006 ACS on STN

ANSWER 3 OF 11 REGS
BN 868055-13-4 REGISTRY

ED Entered STN: 15 Nov 2005

ED Entered SIN: 15 NOV 2003
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β -D-glucopyranosyl-(1 \rightarrow 4)-2-[[[2-[(bis(carboxymethyl)amino)ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

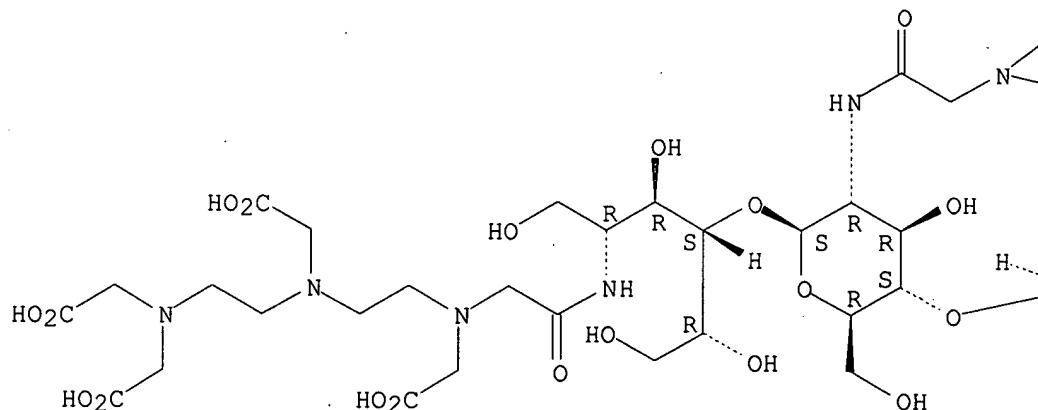
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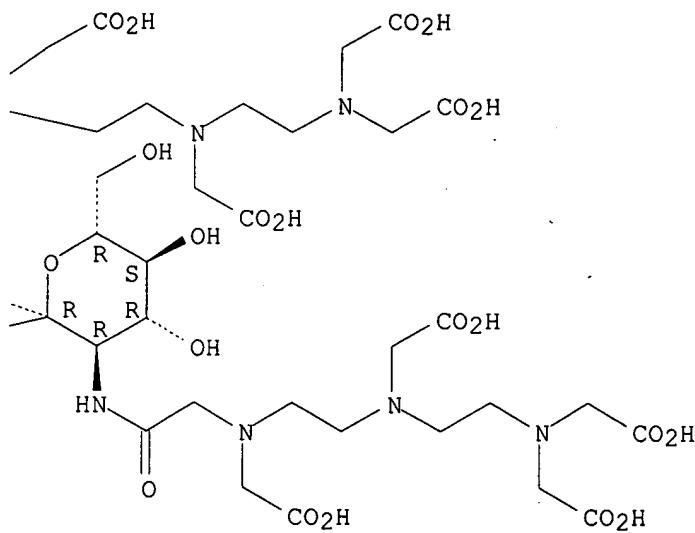
LC STN Files: CA, CAPLUS

Absolute stereochemistry. Rotation (+).

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PAGE 1-B



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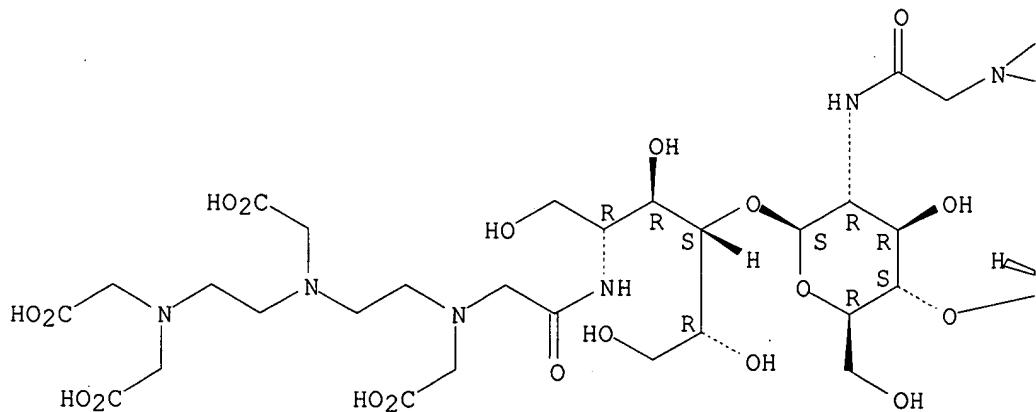
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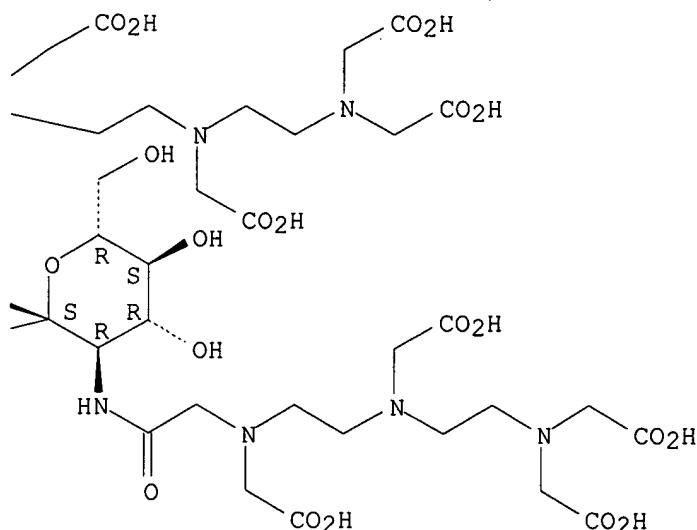
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 RN 868055-12-3 REGISTRY
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 FS STEREOSEARCH
 MF C60 H100 N12 O40
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry. Rotation (-).

PAGE 1-A



PAGE 1-B



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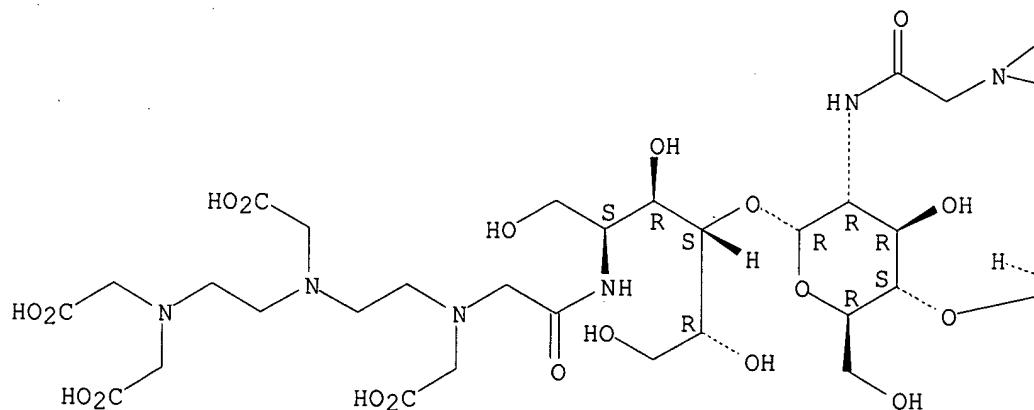
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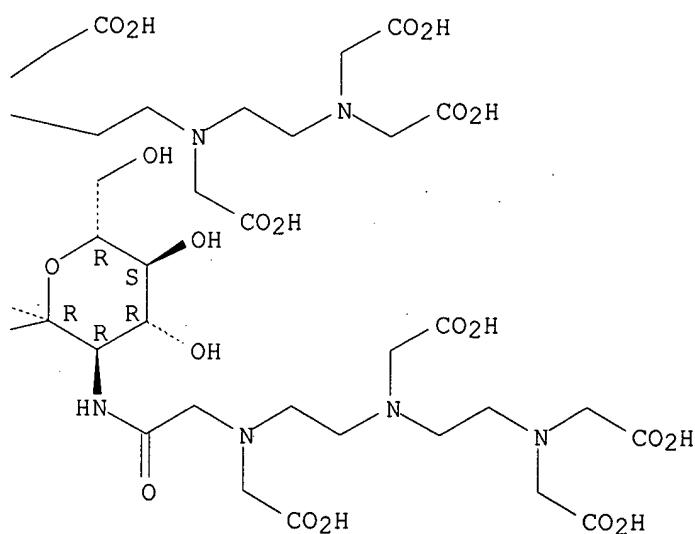
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 RN 868055-11-2 REGISTRY
 ED Entered STN: 15 Nov 2005
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 FS STEREOSEARCH
 MF C60 H100 N12 O40
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
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 RN 868055-10-1 REGISTRY
 ED Entered STN: 15 Nov 2005
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α -D-glucopyranosyl-(1 \rightarrow 4)-2-[[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

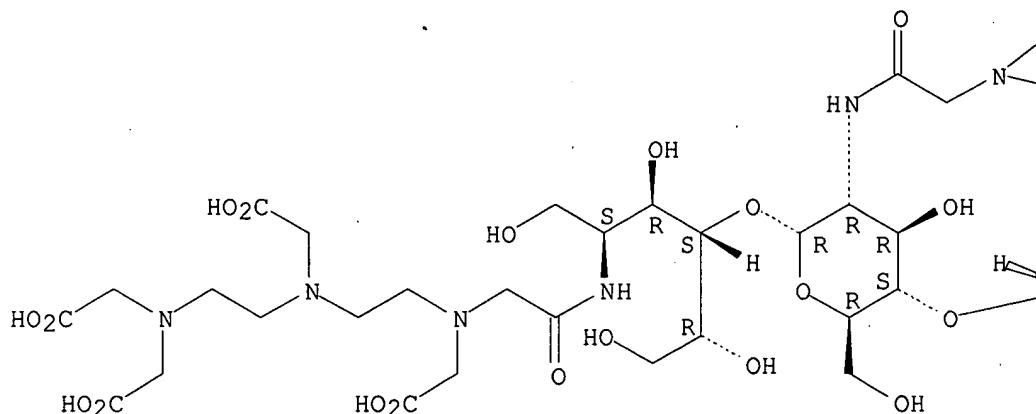
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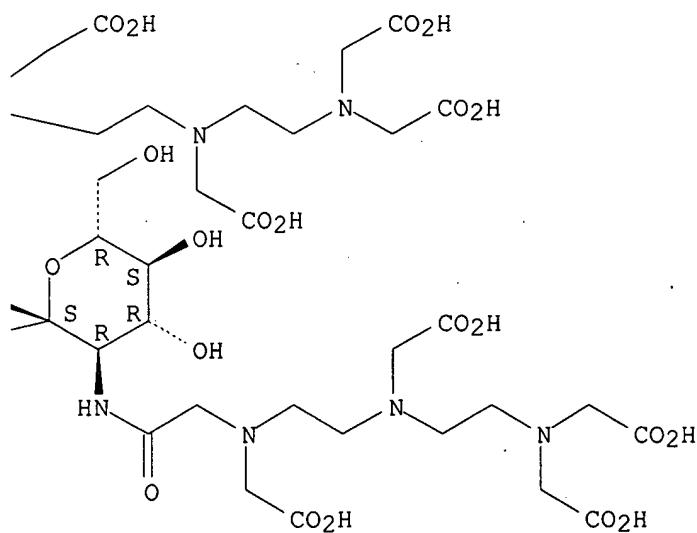
LC STN Files: CA, CAPLUS

Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B



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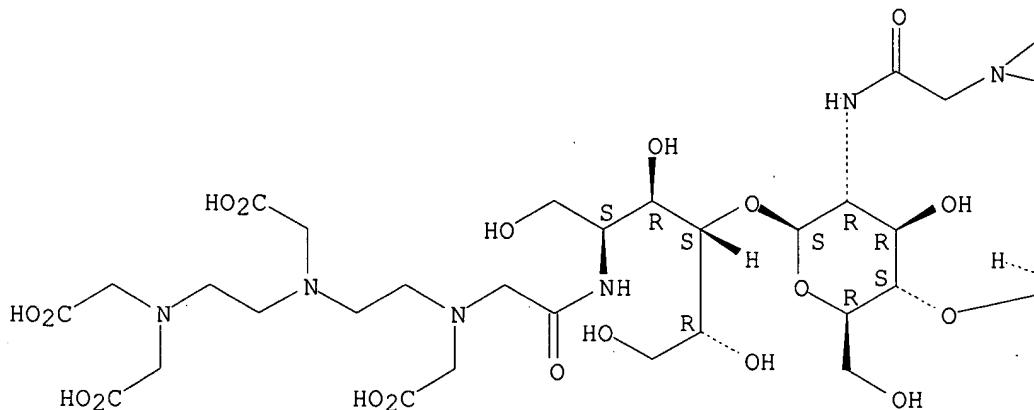
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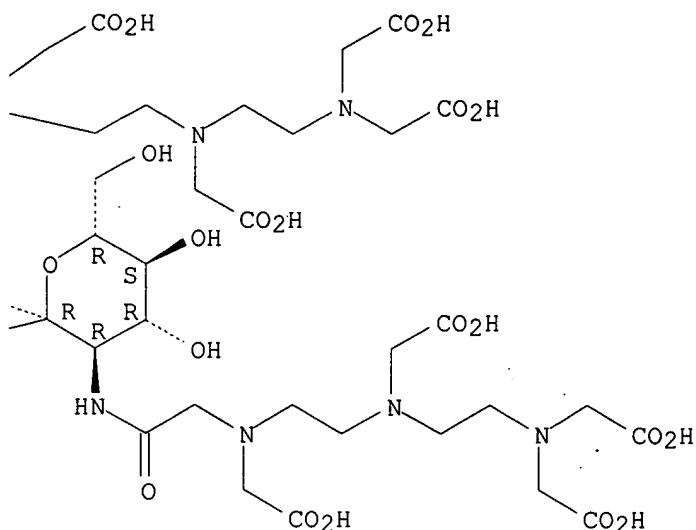
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 RN 868055-09-8 REGISTRY
 ED Entered STN: 15 Nov 2005
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 FS STEREOSEARCH
 MF C60 H100 N12 O40
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

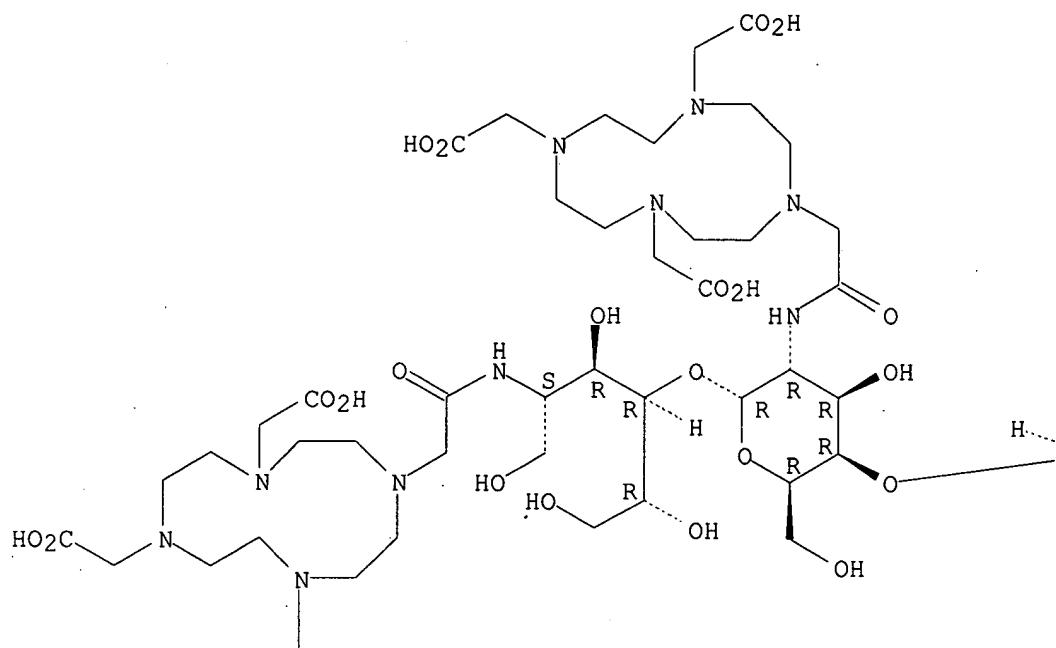
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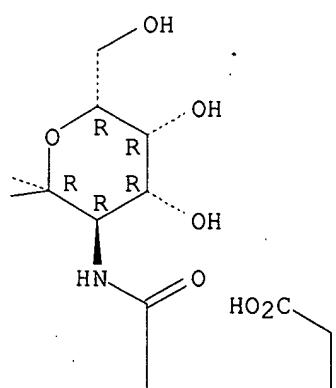
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 RN 411229-74-8 REGISTRY
 ED Entered STN: 06 May 2002
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Absolute stereochemistry.

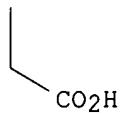
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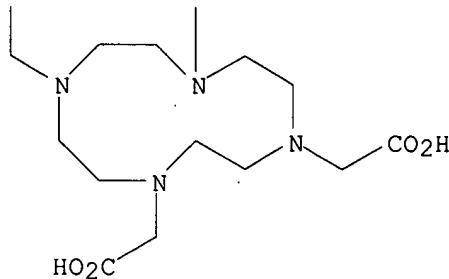
PAGE 1-B



PAGE 2-A



PAGE 2-B



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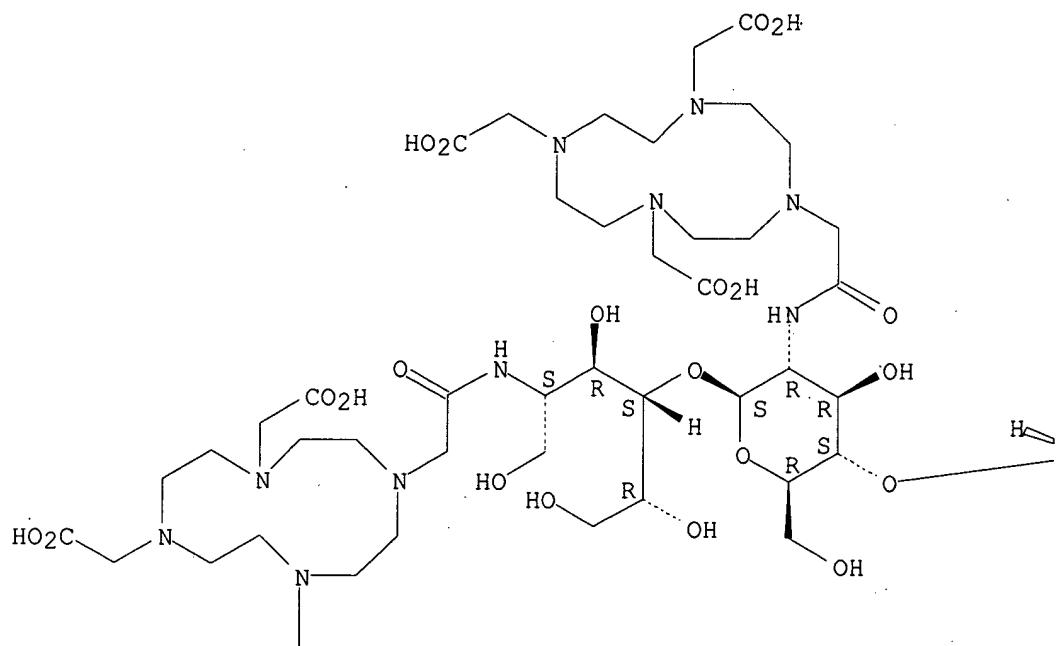
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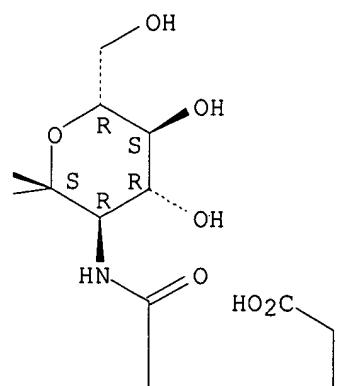
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 RN 411229-73-7 REGISTRY
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Absolute stereochemistry.

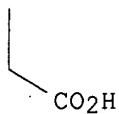
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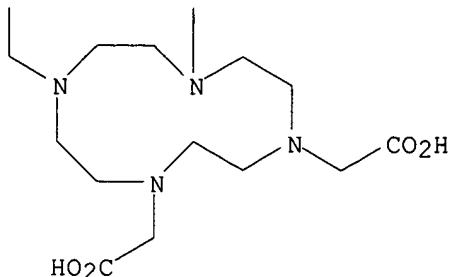
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PAGE 2-A



PAGE 2-B



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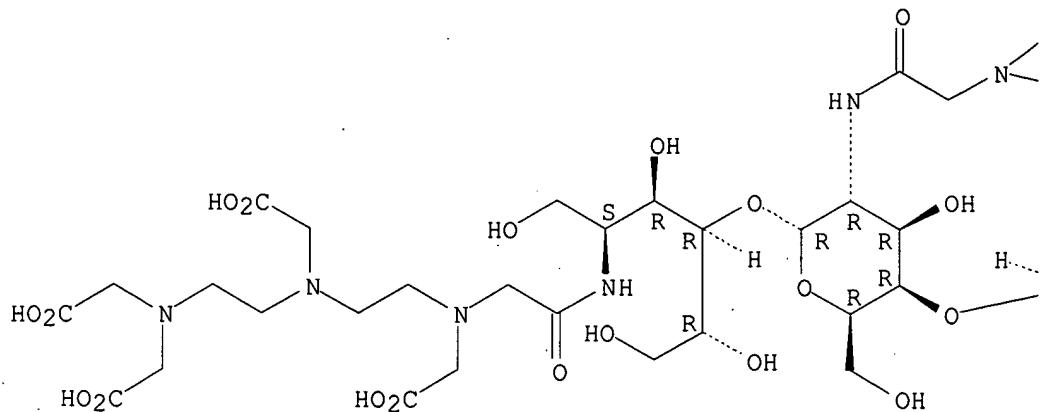
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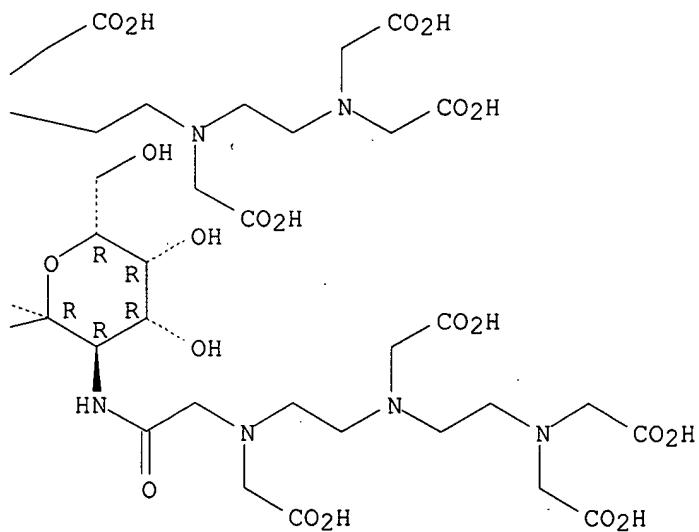
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 RN 411229-71-5 REGISTRY
 ED Entered STN: 06 May 2002
 CN D-Galactitol, 0-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 4)-0-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 3)-2-[[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C60 H100 N12 O40
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:325778

L60 ANSWER 11 OF 11 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 411229-68-0 REGISTRY
 ED Entered STN: 06 May 2002
 CN D-Glucitol, O-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 4)-O-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy-

β -D-glucopyranosyl-(1 \rightarrow 3)-2-[[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

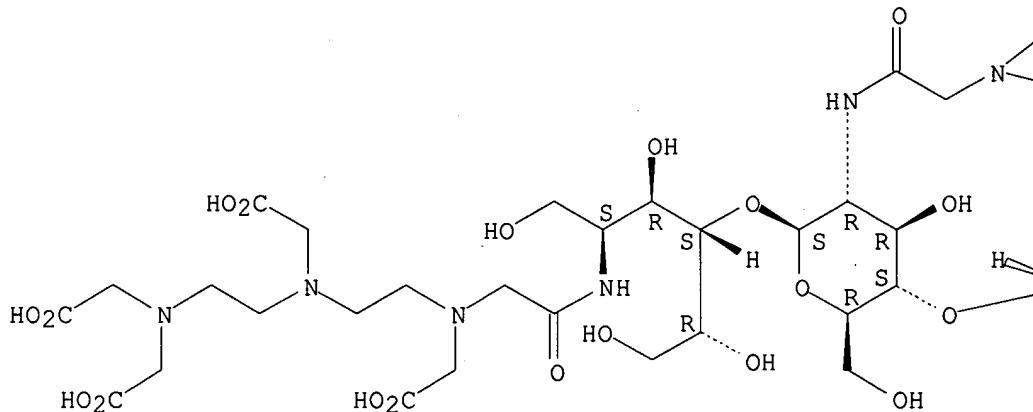
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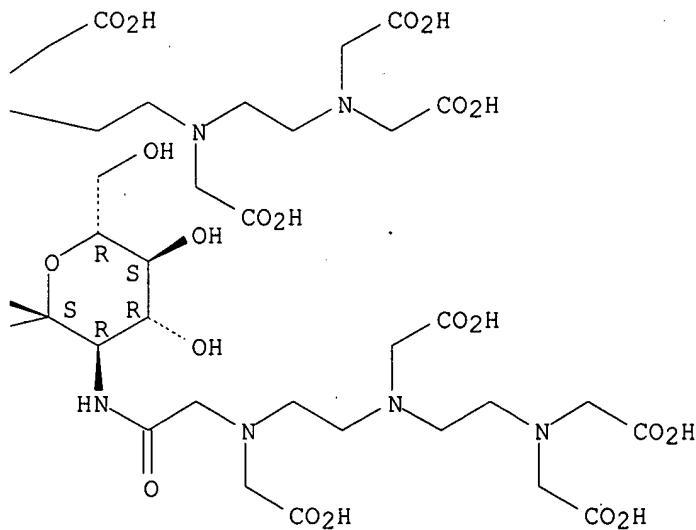
LC STN Files: CA, CAPLUS, CASREACT, PROUSDDR, SYNTHLINE, USPATFULL

Absolute stereochemistry. Rotation (-).

PAGE 1-A



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:422550

REFERENCE 2: 136:325778

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 07:20:10 ON 19 OCT 2006
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FILE COVERS 1907 - 19 Oct 2006 VOL 145 ISS 17
 FILE LAST UPDATED: 17 Oct 2006 (20061017/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d bib abs hitstr retable tot 155

L55 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2005:951424 HCAPLUS
 DN 143:422550
 TI Synthesis of DTPA-conjugated (1,4)-linked 2-amino-glycosides varying in the anomeric configuration and their MRI contrast effect
 AU Tanaka, Hiroshi; Ando, Yoshio; Wada, Masatoshi; Takahashi, Takashi
 CS Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology, Tokyo, Meguro, 152-8552, Japan
 SO Organic & Biomolecular Chemistry (2005), 3(18), 3311-3328
 CODEN: OBCRAK; ISSN: 1477-0520
 PB Royal Society of Chemistry
 DT Journal
 LA English
 AB The efficient synthesis of diethylenetriamine-N,N,N',N'',N'''-penta-acetic acid (DTPA)-conjugated oligosaccharides composed of α - and/or β -linked tri to mono-glucosamines is described. Gd(III) complex with DTPA-conjugated chitotriitol has been reported to be an effective MRI contrast agent. In order to elucidate the structure-property relationships, we planned to synthesize the DTPA-conjugated 2-amino-tri-, di-, and monosaccharides varying in configuration at the anomeric positions and the C2 position on the reducing end. Our strategy for the synthesis of the DTPA-conjugated oligosaccharides involves O-per-benzyl protected 2-amino-tri-, di-, and monosaccharides as key intermediates. The 2-amino-glycosides were prepared by non-selective glycosidation of 2-azido-2-deoxy-glycosyl donors, followed by separation of two anomeric isomers. Although the synthesis involves separation of the stereoisomers, it circumvents not only the careful tuning of reaction conditions, but also the time-consuming preparation of glycosyl donors attached to different

protecting groups. The protected 2-amino-glycosides were converted to the fully deprotected DTPA-conjugated tri- to monosaccharides by the same operation. MRI phantom study using the Gd(III) complexes of DTPA-conjugated oligosaccharides indicates that the number of the monosaccharide units was critical for enhancing the relative signal intensity of water protons per Gd, and various stereoisomers would be candidate scaffolds for MRI contrast agents.

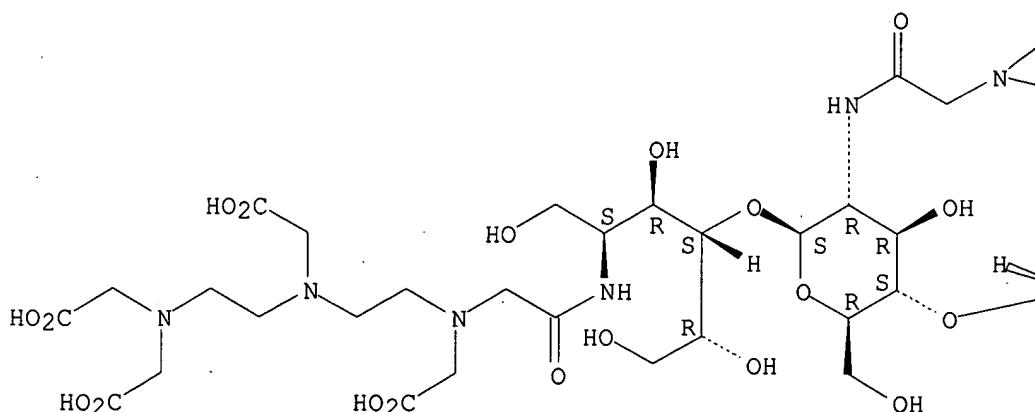
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 868055-11-2P 868055-12-3P 868055-13-4P
 868055-14-5P 868055-15-6P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (synthesis of DTPA-conjugated (1,4)-linked 2-amino-glycosides varying in the anomeric configuration and their MRI contrast effect)

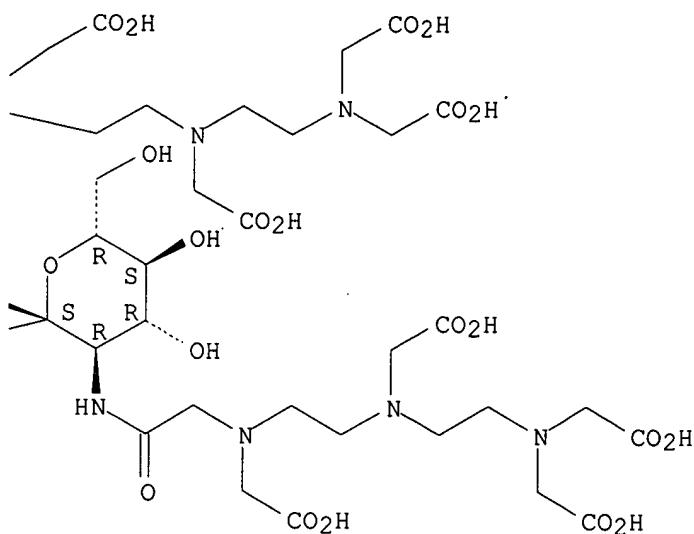
RN 411229-68-0 HCPLUS
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Absolute stereochemistry. Rotation (-).

PAGE 1-A



PAGE 1-B

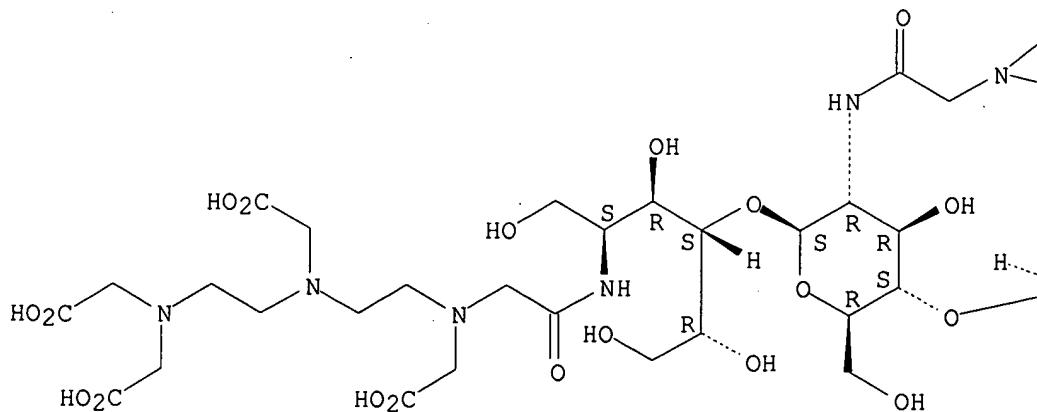


RN 868055-09-8 HCPLUS

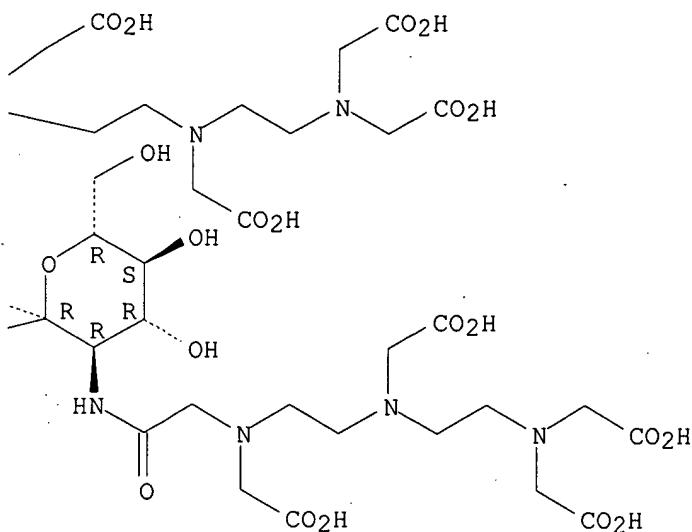
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Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B

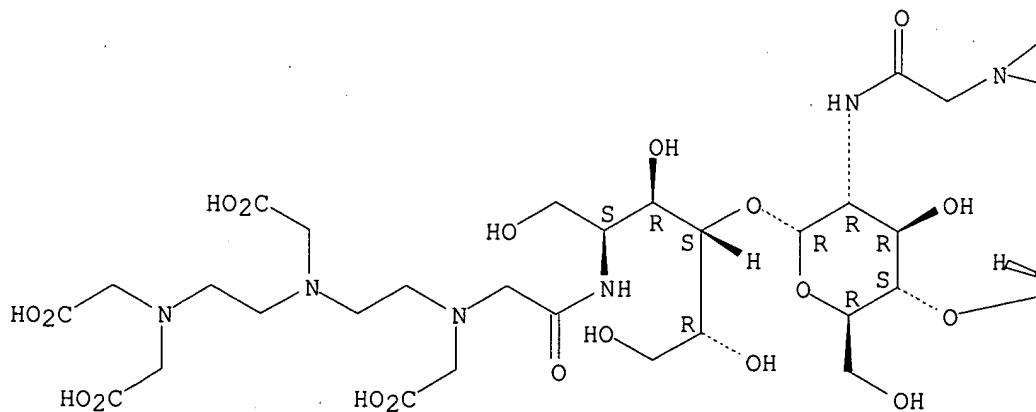


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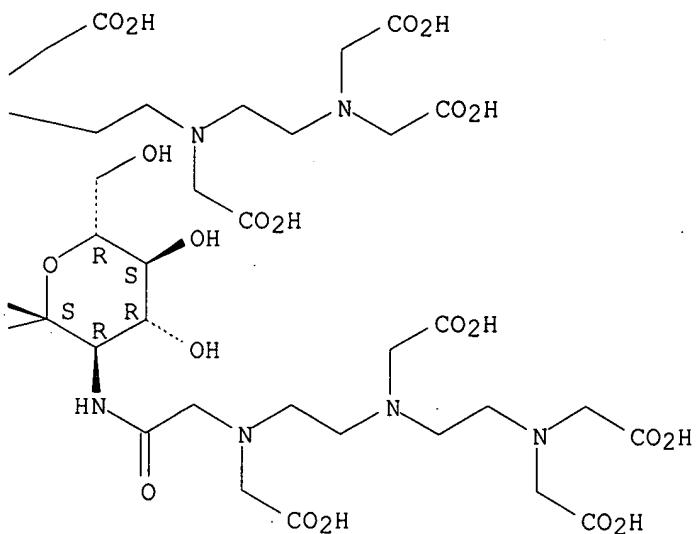
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Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B

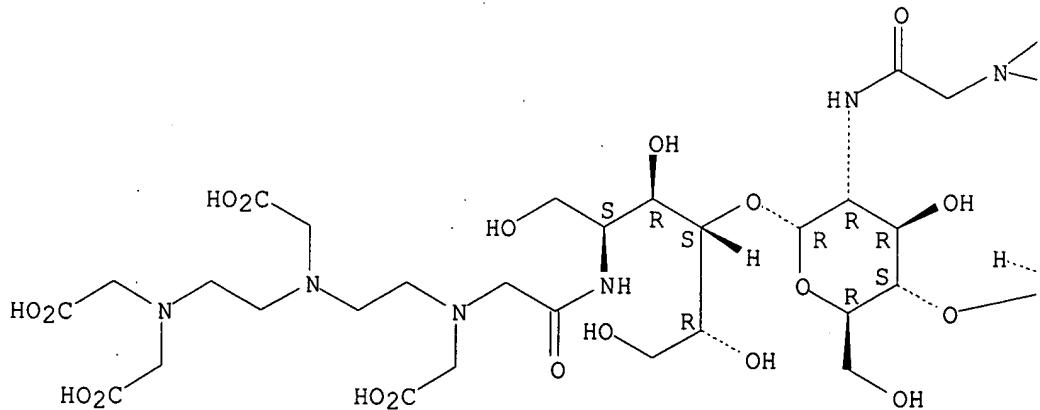


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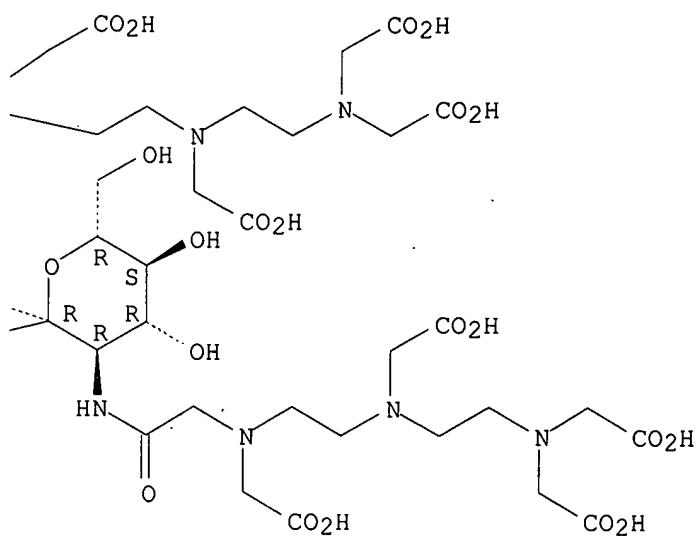
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Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B

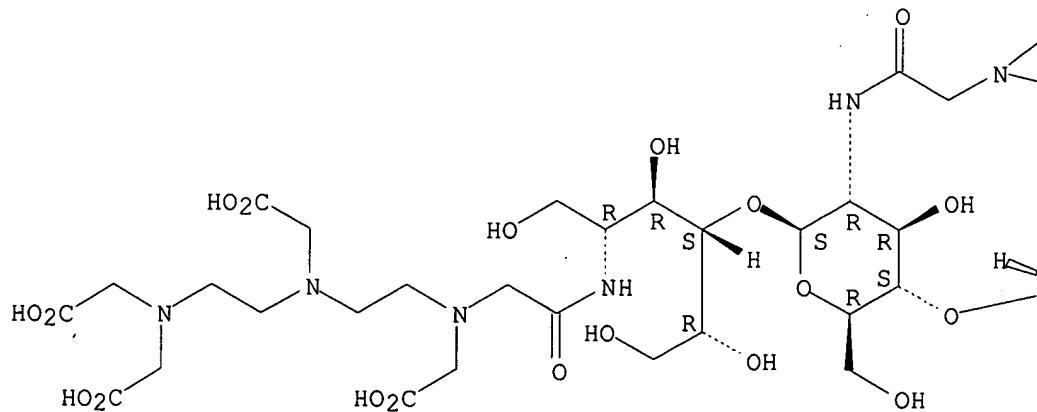


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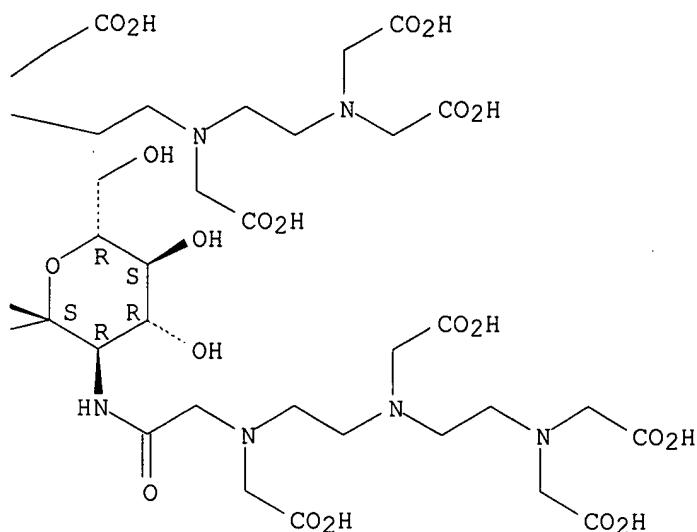
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Absolute stereochemistry. Rotation (-).

PAGE 1-A



PAGE 1-B

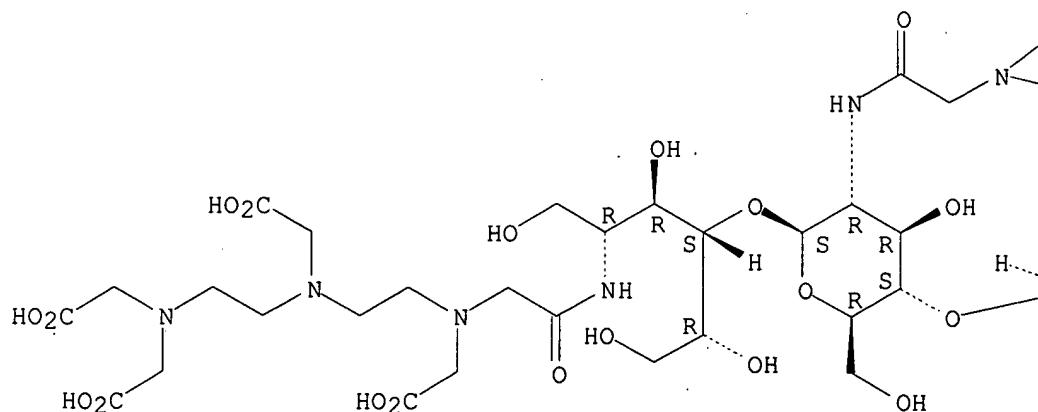


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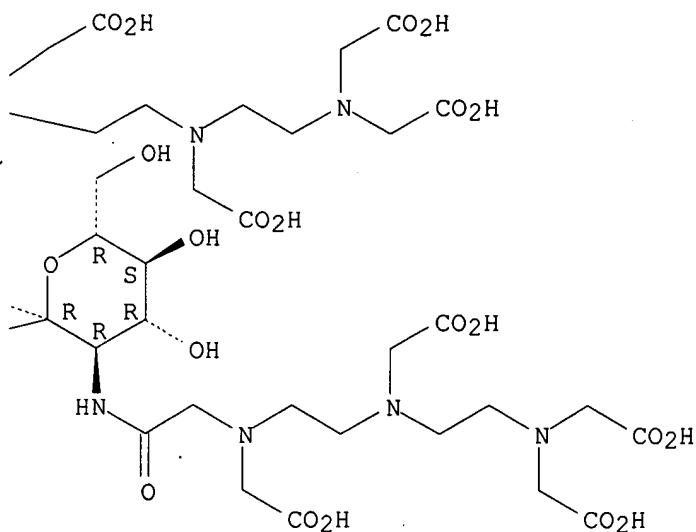
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Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B

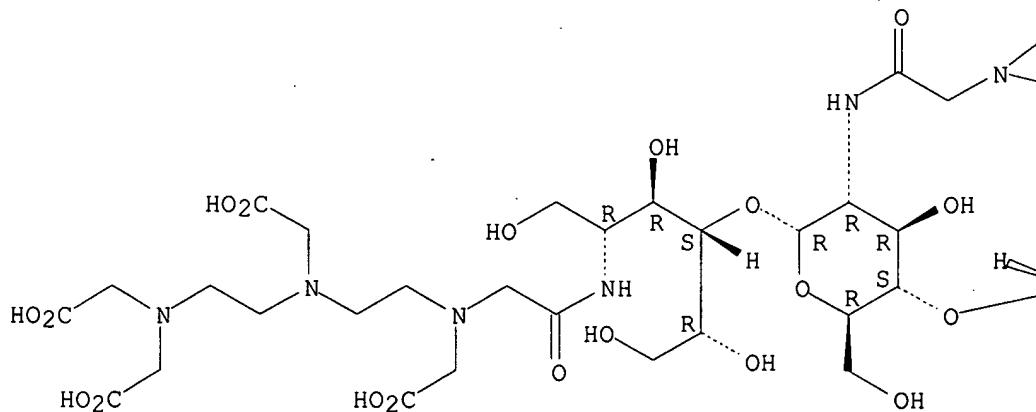


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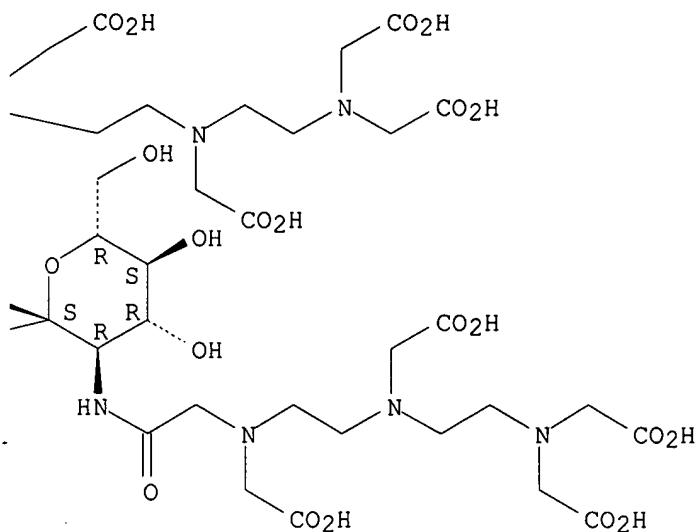
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Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B

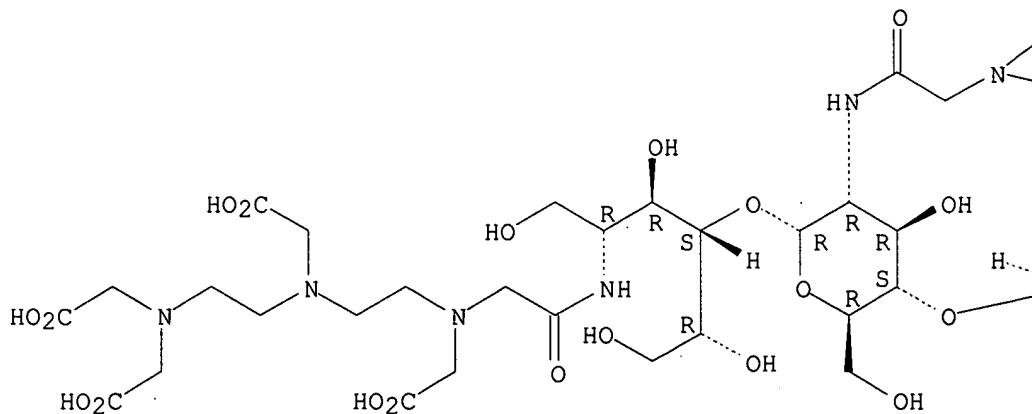


RN 868055-15-6 HCAPLUS

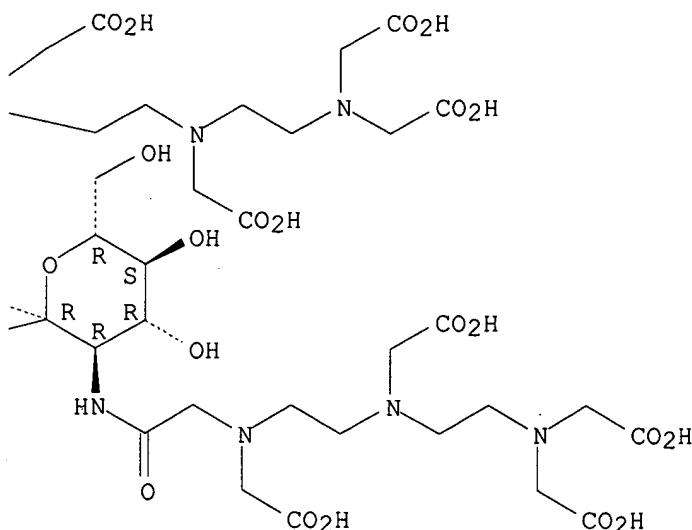
CN D-Mannitol, O-2-[[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-O-2-[[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-2-[[[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

PAGE 1-A



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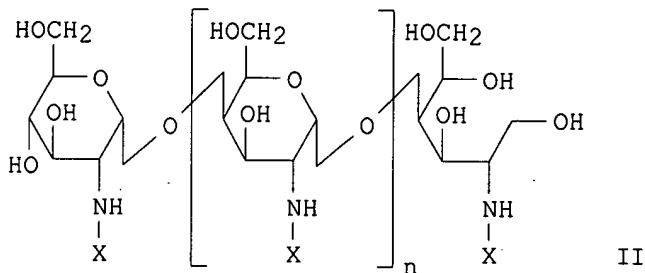
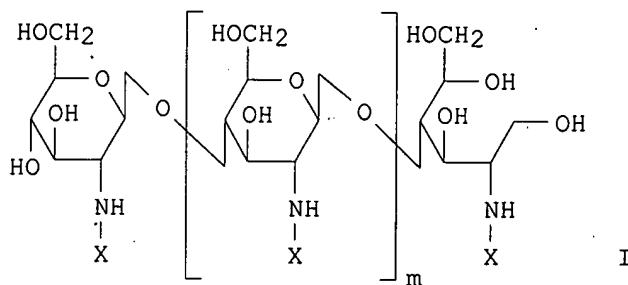
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Referenced Author (RAU)	Year (R PY)	VOL (R VL)	PG (R PG)	Referenced Work (RWK)	Referenced File
Alper, P	1996	37	16029	Tetrahedron Lett	HCAPLUS
Andre, J	2004	10	15804	Chem Eur J	HCAPLUS
Arano, Y	1996	39	13451	J Med Chem	HCAPLUS
Bammer, R	2004	22	1619	Magn Reson Imaging	HCAPLUS
Caravan, P	1999	99	12293	Chem Rev	HCAPLUS
Chang, C	2002	4	14603	Org Lett	HCAPLUS
de Crespigny, A	1999	17	1297	Magn Reson Imaging	MEDLINE
Ding, Y	1996	4	1683	Bioorg Med Chem	HCAPLUS
Fu, Y	2002	1	13966	Eur J Org Chem	HCAPLUS
Gololobov, Y	1981	37	1437	Tetrahedron	HCAPLUS
Gololobov, Y	1992	33	1353	Tetrahedron	
Illum, L	1994	1	1186	Pharm Res	HCAPLUS
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Kumar, M	2004	104	16017	Chem Rev	
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Orgueira, H	2003	9	140	Chem Eur J	HCAPLUS
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Roy, K	1999	5	1387	Nat Med	HCAPLUS
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Scriven, E	1988	88	1351	Chem Rev	

Shim, J	2003	90	3270	J Appl Polym Sci	HCAPLUS
Takahashi, M	2000	41	8485	Tetrahedron Lett	HCAPLUS
Thanou, M	2001	50	S91	Adv Drug Delivery Re	HCAPLUS
Vasella, A	1991	74	2073	Helv Chim Acta	HCAPLUS
Wang, Y	2003	24	1047	Biomaterials	HCAPLUS

L55 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2002:504798 HCAPLUS
 DN 137:87494
 TI Process for producing and purifying metal complex of aminooligosaccharide derivative
 IN Hashiguchi, Yuji; Suzuki, Keisuke; Wada, Masatoshi
 PA Nihon Medi-Physics Co., Ltd., Japan
 SO PCT Int. Appl., 19 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

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PRAI	JP 2000-394258	A	20001226		
	WO 2001-JP10983	W	20011214		
OS	MARPAT	137:87494			
GI					



AB Disclosed is a process for producing a highly purified metal complex of an aminooligosaccharide derivative (I, II; m, n = 1-8; X = a bifunctional ligand) by effectively removing impurities, byproducts, excess eluates, etc. generated in the step of synthesizing the amino oligosaccharide derivative and the step of forming the metal complex thereof. The process comprises subjecting a crude liquid reaction mixture containing an aminooligosaccharide derivative to the step of complexing with metal ions and to a purification step, wherein the purification step comprises at least one stage by the solvent extraction

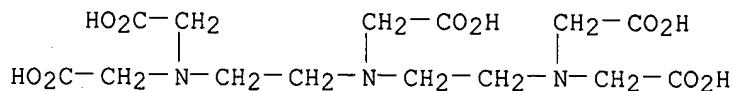
method, anion-exchange method, filter membrane separation method, electrodialysis, or adsorption method. Thus, a crude amidation product (CH3-DTPA) of reduced chitotrisaccharide and diethylenetriaminepentaacetic acid (DTPA) (.apprx.60 g) (50 mL) was adjusted pH 4 by 12 N HCl, slowly treated dropwise with 100 MeOH over .apprx.15 min with stirring, stirred at 30-35° for 15 min, and left to stand for 30 min for the phase separation. The unreacted DTPA mainly migrated to the upper clear layer and to the bottom oil layer migrated mostly reduced chitotrisaccharide and low mol. and polymeric byproducts to recover 93.8% CH3-DTPA and remove 46.8% DTPA. The oil layer was purified by HPLC on a column of Poros 50 HQ (Applied Systems Inc., 30 mm diameter + 250 mm length) using a Shimazu LC-8A apparatus and eluting out low mol. compds. CH3-DTPA, and polymers with aqueous NaCl at 100, 250, and 500 mmol/L, resp., to give an aqueous solution of CH3-DTPA (0.06%, 96.0% purity) which was desalting by a reverse osmosis module (diameter 4 in.) using a polyamide membrane to recover 98% CH3-DTPA with 99% desalting ratio. To the desalting solution was added dropwise an aqueous solution of GdCl3, stirred at pH 5-7 to give an aqueous solution of CH3-DTPA-Gd complex which (640 mL, 3.2 g, 0.16 g/resin) was passed through a column of IRA67 (Cl form). The column was washed with deionized water 1,000 mL and sequentially eluted with aqueous NaCl at 10, 30, and 50 mmol/L to give CH3-DTPA-Gd complex (≥97% purity and .apprx.85% recovery).

IT 67-43-6DP, Diethylenetriaminepentaacetic acid, reaction product with chitotrisaccharide 84354-98-3DP, reaction product with diethylenetriaminepentaacetic acid
 RL: PUR (Purification or recovery); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(process for producing metal complex of aminooligosaccharide derivative and purification by solvent extraction, ion-exchange chromatog., reverse osmosis, electrodialysis, or adsorption method.)

RN 67-43-6 HCAPLUS

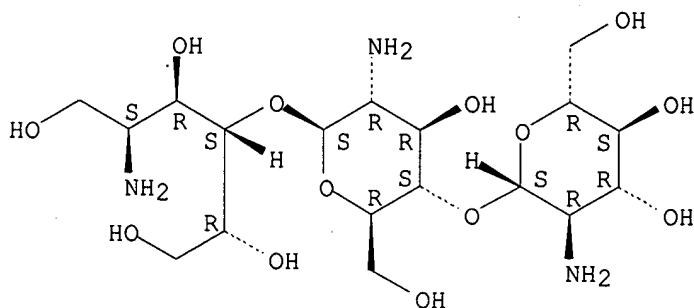
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 84354-98-3 HCAPLUS

CN D-Glucitol, O-2-amino-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 4)-O-2-amino-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 4)-2-amino-2-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RETABLE

Referenced Author (RAU)	Year (R PY)	VOL (R VL)	PG (R PG)	Referenced Work (R WK)	Referenced File
Nihon Medi-Physics Co L	1996			JP 08208572 A	HCAPLUS
Nihon Medi-Physics Co L	1996			US 5863518 A	HCAPLUS
Nihon Medi-Physics Co L	1996			EP 707857 A1	HCAPLUS

L55 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:314437 HCAPLUS

DN 136:325778

TI Process for producing an amide oligosaccharides which can be used as a diagnostic imaging agents

IN Takano, Naoyuki; Nakamura, Daisaku

PA Sumitomo Chemical Company, Limited, Japan; Nihon Medi-Physics Co., Ltd.

SO Eur. Pat. Appl., 13 pp.

CODEN: EPXXDW

DT Patent

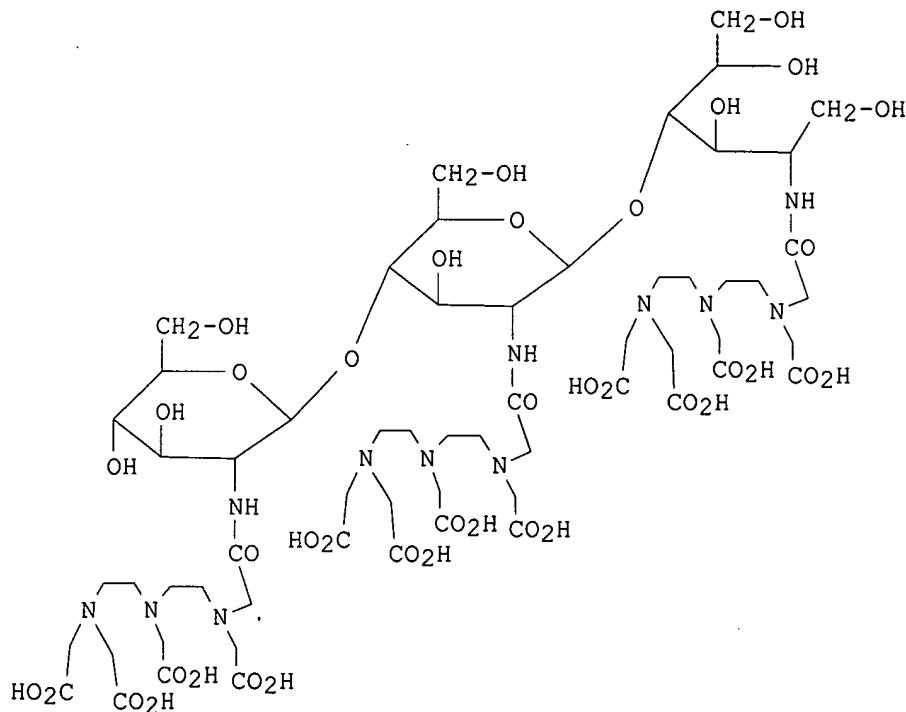
LA English

FAN.CNT 1

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PI EP 1199312	A2	20020424	EP 2001-308628	20011009 <--
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NZ 514653	A	20020927	NZ 2001-514653
NO 2001004885	A	20020412	NO 2001-4885
US 2002077456	A1	20020620	US 2001-971929
AT 271561	E	20040815	AT 2001-308628
ES 2225429	T3	20050316	ES 2001-1308628
JP 2002187948	A2	20020705	JP 2001-313672
PRAI JP 2000-310626	A	20001011	<--
OS CASREACT 136:325778			
GI			



AB There is disclosed a process for producing an amide compound, which process is characterized in that a compound having an amino group is reacted with a polyaminopolycarboxylic acid anhydride in the presence of the polyaminopolycarboxylic acid. The present invention relates to a process for producing an amide compound having a polyaminopolycarboxylic acid group, which amide compound is a useful intermediate for pharmaceuticals, agricultural chems., and the like. For example, amide oligosaccharide I was prepared and can be used as a diagnostic imaging agent by allowing the polyaminopolycarboxylic acid group to make a complex with a radioactive or paramagnetic metallic element.

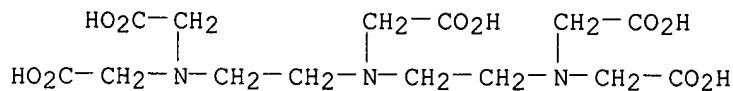
IT 67-43-6DP, Diethylenetriaminepentaacetic acid, human serum albumin conjugate 411229-68-0P 411229-71-5P
411229-73-7P 411229-74-8P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(process for producing an amide oligosaccharides which can be used as a diagnostic imaging agents)

RN 67-43-6 HCPLUS

CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)

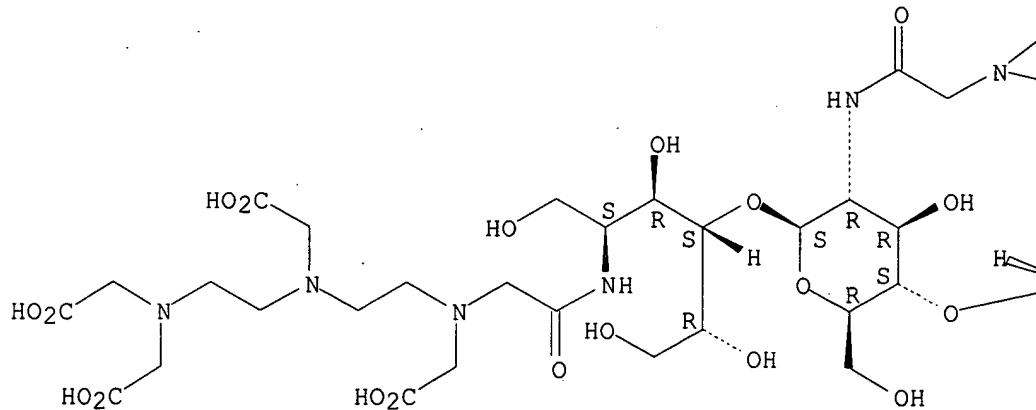


RN 411229-68-0 HCPLUS

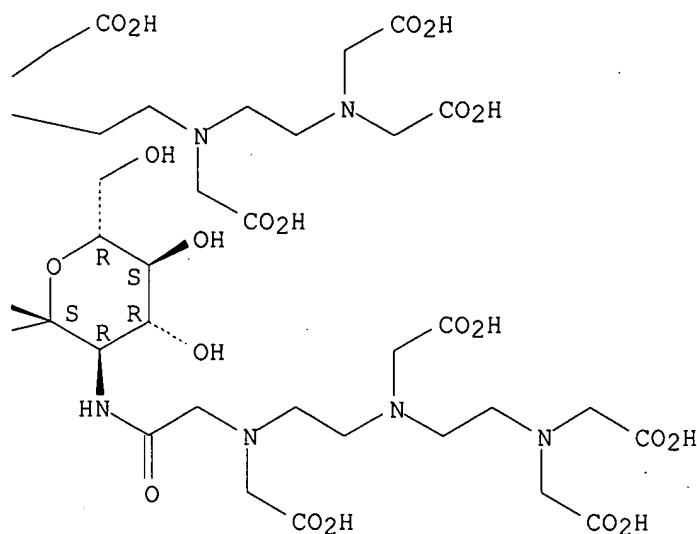
CN D-Glucitol, O-2-[[[[2-[[2-[bis(carboxymethyl)amino]ethyl] (carboxymethyl)amino]ethyl] (carboxymethyl)amino]acetyl]amino]-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 4)-O-2-[[[[2-[[2-[bis(carboxymethyl)amino]ethyl] (carboxymethyl)amino]ethyl] (carboxymethyl)amino]acetyl]amino]-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 3)-2-[[[[2-[[2-[bis(carboxymethyl)amino]ethyl] (carboxymethyl)amino]ethyl] (carboxymethyl)amino]acetyl]amino]-2-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

PAGE 1-A



PAGE 1-B

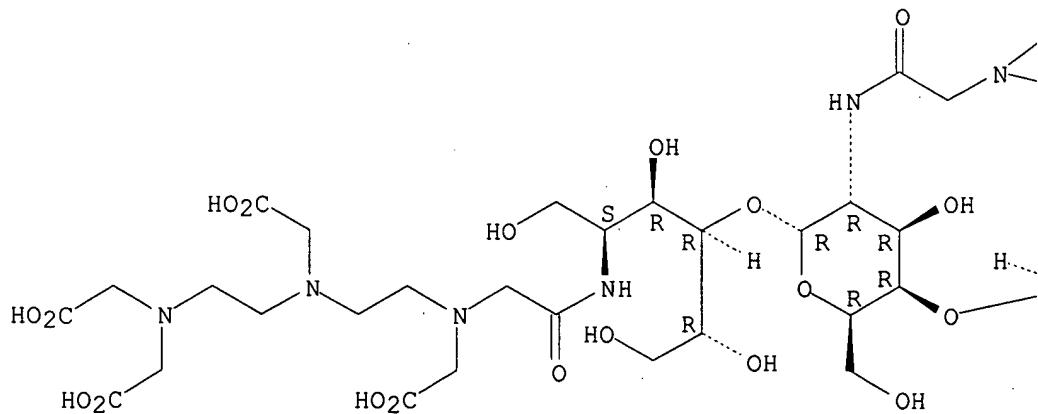


RN 411229-71-5 HCAPLUS

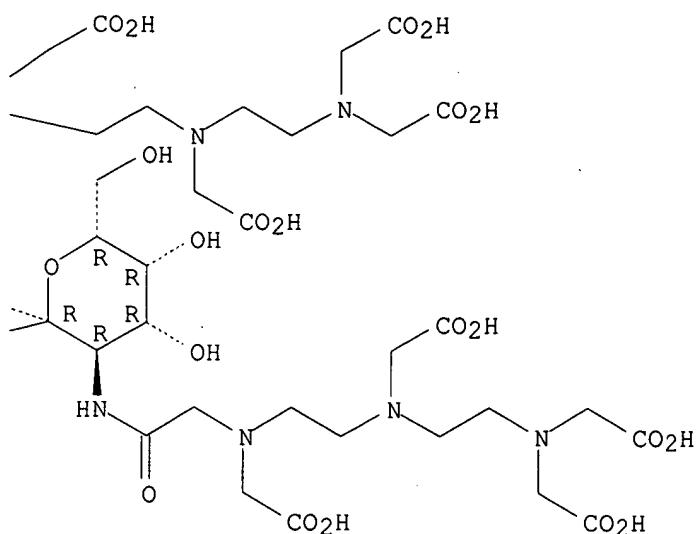
CN D-Galactitol, O-2-[[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 4)-O-2-[[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 3)-2-[[[[2-[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

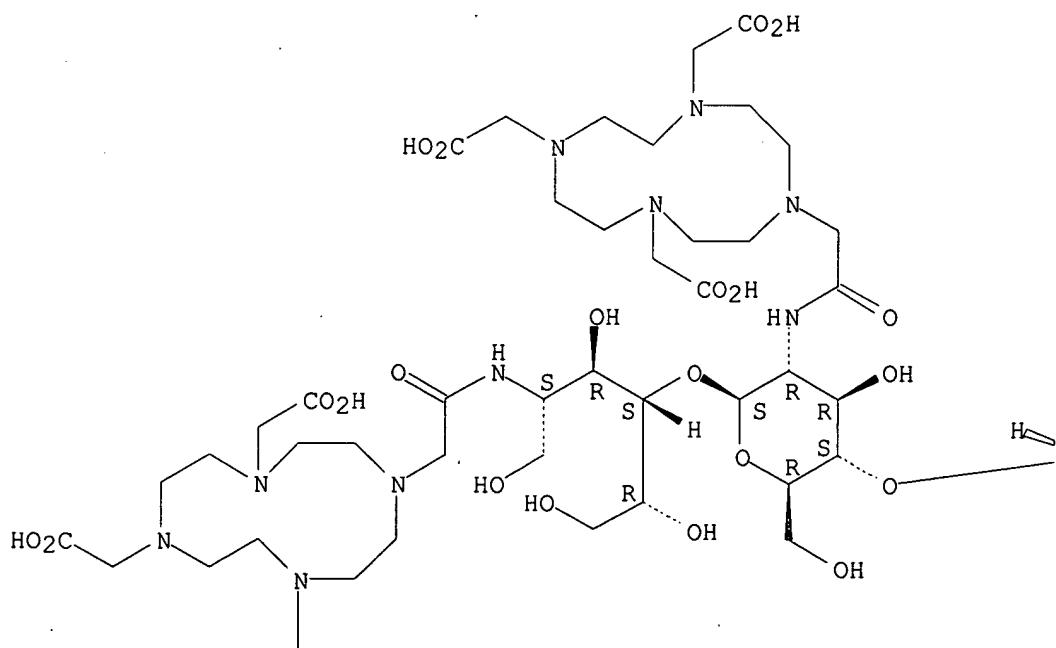


RN 411229-73-7 HCAPLUS

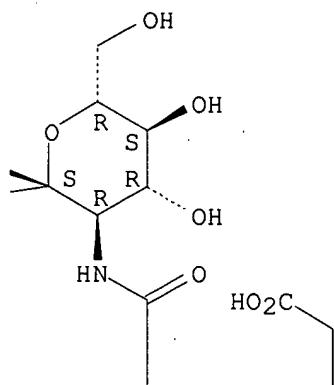
CN D-Glucitol, O-2-deoxy-2-[[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]amino]- β -D-glucopyranosyl-(1 \rightarrow 4)-O-2-deoxy-2-[[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]amino]- β -D-glucopyranosyl-(1 \rightarrow 3)-2-deoxy-2-[[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

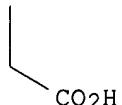
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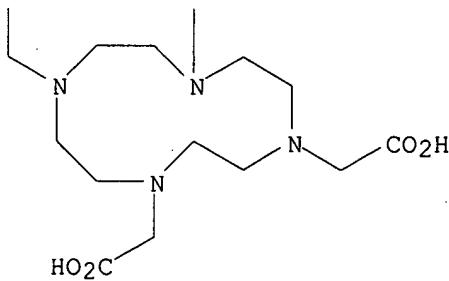
PAGE 1-B



PAGE 2-A



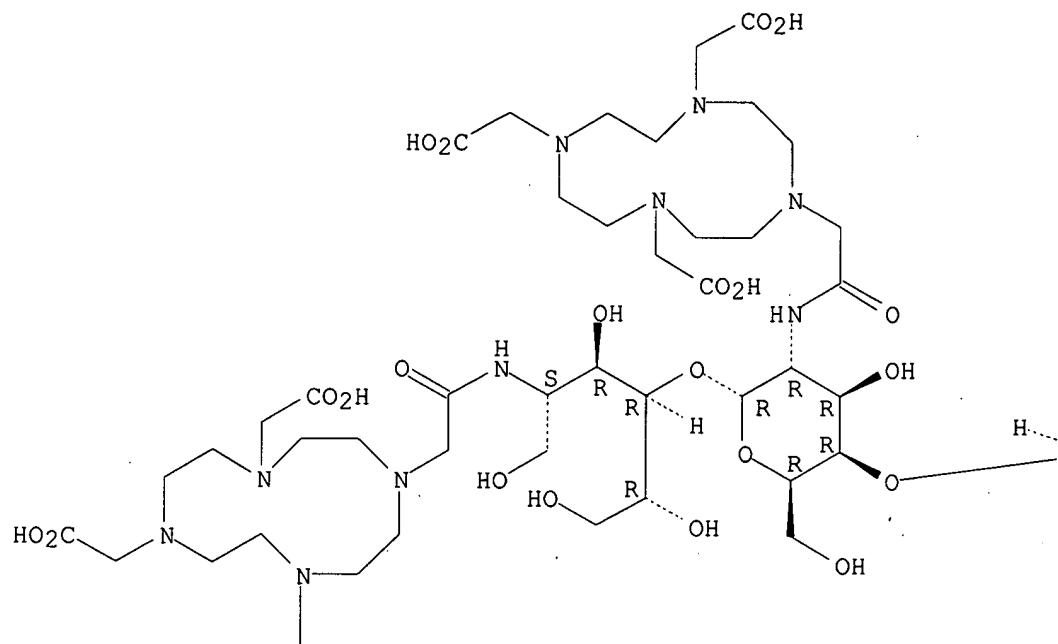
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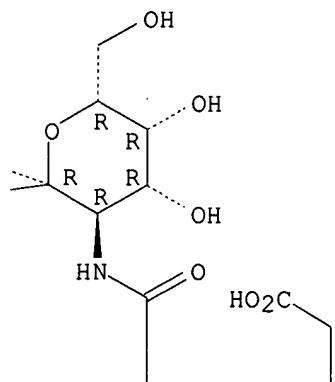
RN 411229-74-8 HCAPLUS
 CN D-Galactitol, O-2-deoxy-2-[[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]amino]- α -D-galactopyranosyl-(1 \rightarrow 4)-O-2-deoxy-2-[[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]amino]- α -D-galactopyranosyl-(1 \rightarrow 3)-2-deoxy-2-[[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

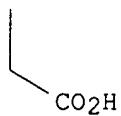
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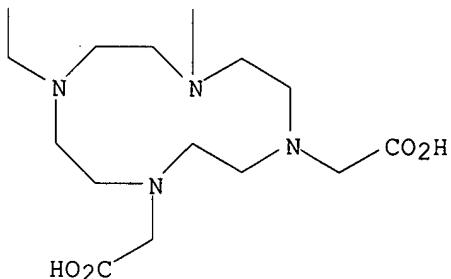
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PAGE 2-A

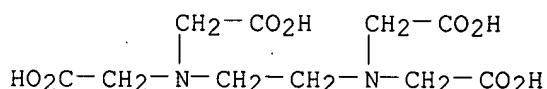


PAGE 2-B

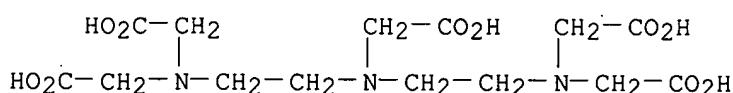


IT 60-00-4, Ethylenediaminetetraacetic acid, reactions
 67-43-6, Diethylenetriaminepentaacetic acid 23911-25-3,
 Ethylenediaminetetraacetic dianhydride 23911-26-4,
 Diethylenetriaminepentaacetic acid dianhydride 81329-81-9
 106145-40-8 132438-15-4 148690-82-8
 411229-70-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (process for producing an amide oligosaccharides which can be used as a
 diagnostic imaging agents)

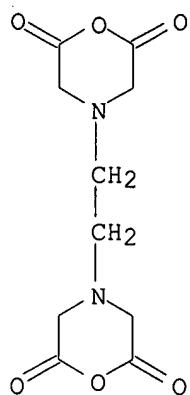
RN 60-00-4 HCPLUS
 CN Glycine, N,N'-1,2-ethanediylibis[N-(carboxymethyl)- (9CI) (CA INDEX NAME)



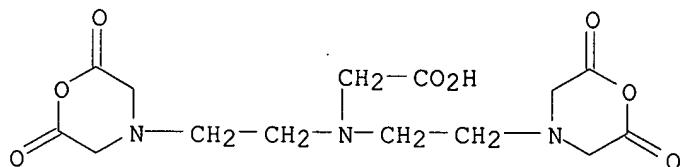
RN 67-43-6 HCPLUS
 CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA
 INDEX NAME)



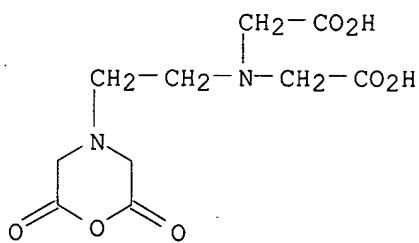
RN 23911-25-3 HCPLUS
 CN 2,6-Morpholinedione, 4,4'-(1,2-ethanediyil)bis- (9CI) (CA INDEX NAME)



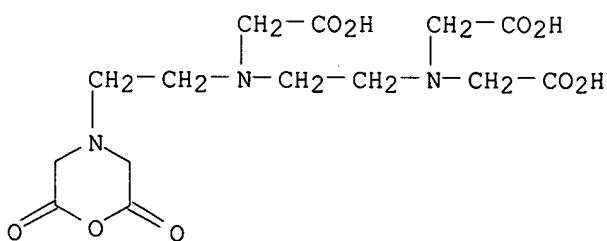
RN 23911-26-4 HCPLUS
 CN Glycine, N,N-bis[2-(2,6-dioxo-4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)



RN 81329-81-9 HCPLUS
 CN Glycine, N-(carboxymethyl)-N-[2-(2,6-dioxo-4-morpholinyl)ethyl]- (9CI)
 (CA INDEX NAME)



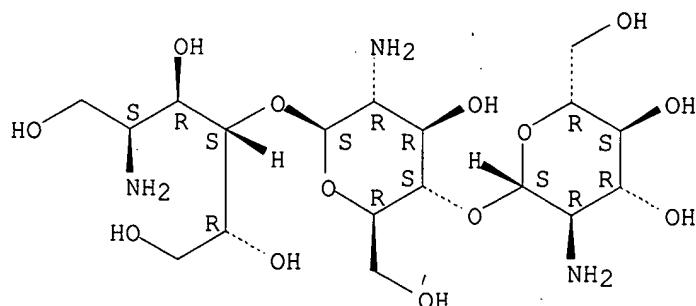
RN 106145-40-8 HCPLUS
 CN Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-[2-(2,6-dioxo-4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)



RN 132438-15-4 HCAPLUS

CN D-Glucitol, O-2-amino-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 4)-O-2-amino-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 4)-2-amino-2-deoxy-, trihydrochloride (9CI) (CA INDEX NAME)

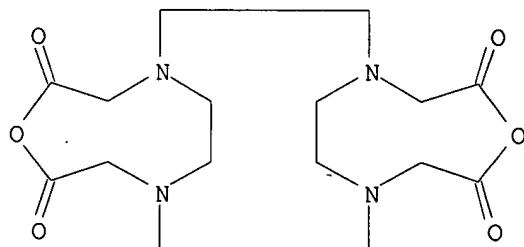
Absolute stereochemistry.



● 3 HCl

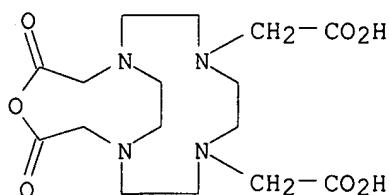
RN 148690-82-8 HCAPLUS

CN 7,16-Dioxa-1,4,10,13-tetraazatricyclo[11.5.2.24,10]docosane-6,8,15,17-tetrone (9CI) (CA INDEX NAME)



RN 411229-70-4 HCAPLUS

CN 13-Oxa-1,4,7,10-tetraazabicyclo[8.5.2]heptadecane-4,7-diacetic acid, 12,14-dioxo- (9CI) (CA INDEX NAME)



L55 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1993:517749 HCAPLUS

DN 119:117749

TI Preparation of bifunctional ligands for metals as imaging agent for

diagnosis

IN Hashifuchi, Yuji; Iwai, Kumiko; Seri, Shigemi; Kondo, Susumu; Azuma, Makoto

PA Nihon Medi-Physics Co., Ltd., Japan

SO Eur. Pat. Appl., 14 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 535668	A1	19930407	EP 1992-116804	19921001
EP 535668	B1	19960807		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE				
JP 05097712	A2	19930420	JP 1991-258017	19911004
JP 2894879	B2	19990524		
US 5271924	A	19931221	US 1992-952992	19920929
CA 2079493	AA	19930405	CA 1992-2079493	19920930
CA 2079493	C	20020528		
AT 141058	E	19960815	AT 1992-116804	19921001
ES 2093163	T3	19961216	ES 1992-116804	19921001
AU 9226191	A1	19930408	AU 1992-26191	19921002
AU 650791	B2	19940630		
KR 219004	B1	19990901	KR 1992-18074	19921002
US 5352431	A	19941004	US 1993-119387	19930913

PRAI JP 1991-258017 A 19911004
 US 1992-952992 A3 19920929

OS MARPAT 119:117749

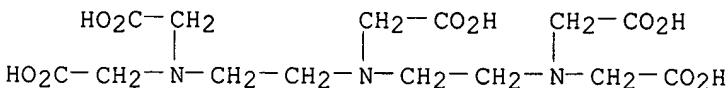
AB The bifunctional ligand comprises galactosamino-oligosaccharide and polyaminopolycarboxylic acid. To galactosamino-pentamer in phosphate buffer was added 1-(p-isothiocyanatebenzyl)diethylenetriaminepentaacetic acid, to give after workup their reaction product which in distilled H₂O was added to 0.1M citrate buffer followed by InCl₃ (148MBeq) to give the complex (I) having a radiochem. purity of 100%. The 1/2 life of I in blood was 55 min, clin. effective retention in blood and good excretion in urine.

IT 67-43-6DP, Diethylenetriamine pentaacetic acid, reaction products with galactosamino-oligosaccharides, metal complexes 60239-18-1DP, 1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraacetic acid, reaction products with galactosamino-oligosaccharides, metal complexes 128174-30-1DP, reaction products with polyaminopolycarboxylic acid, metal complexes

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as imaging agent for diagnosis)

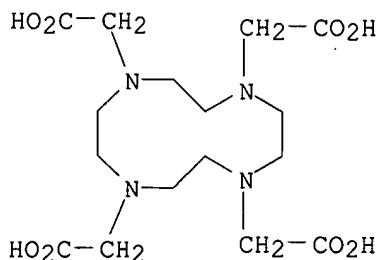
RN 67-43-6 HCPLUS

CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 60239-18-1 HCPLUS

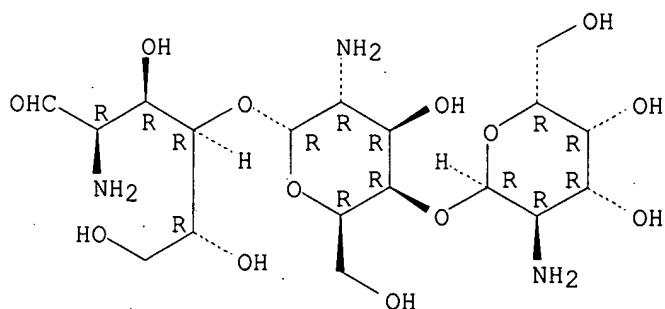
CN 1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraacetic acid (9CI) (CA INDEX NAME)



RN 128174-30-1 HCPLUS

CN D-Galactose, 0-2-amino-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 4)-O-2-amino-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 4)-2-amino-2-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> fil uspatfull

FILE 'USPATFULL' ENTERED AT 07:20:33 ON 19 OCT 2006

CA INDEXING COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 17 Oct 2006 (20061017/PD)

FILE LAST UPDATED: 17 Oct 2006 (20061017/ED)

HIGHEST GRANTED PATENT NUMBER: US7124445

HIGHEST APPLICATION PUBLICATION NUMBER: US2006230483

CA INDEXING IS CURRENT THROUGH 17 Oct 2006 (20061017/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 17 Oct 2006 (20061017/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2006

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2006

=> d bib abs hitstr tot 159

L59 ANSWER 1 OF 4 USPATFULL on STN

AN 2003:72165 USPATFULL

TI Process for producing metal complex of aminooligosaccharide derivative
IN Hashiguchi, Yuji, Chiba, JAPAN

Suzuki, Keisuke, Chiba, JAPAN

Wada, Masatoshi, Chiba, JAPAN

PI US 2003050452 A1 20030313

AI US 2002-204557 A1 20020822 (10)
WO 2000-JP110983 20001226

PRAI JP 2000-394258 20001226

DT Utility
 FS APPLICATION
 LREP FITCH EVEN TABIN AND FLANNERY, 120 SOUTH LA SALLE STREET, SUITE 1600,
 CHICAGO, IL, 60603-3406
 CLMN Number of Claims: 11
 ECL Exemplary Claim: 1
 DRWN No Drawings
 LN.CNT 477

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

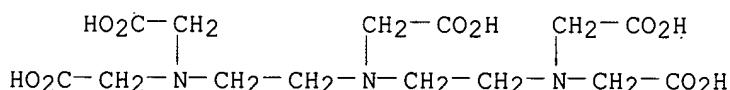
AB A highly purified metal complex with an amino-oligosaccharide derivative is produced by effectively removing impurities, by-products, excess salts and the like that have been produced during the reaction steps for synthesis of the amino-oligosaccharide derivative and the steps for formation of its metal complexes. A process for producing a metal complex with an amino-oligosaccharide derivative is provided, in which a crude reaction liquid containing an amino-oligosaccharide derivative is subjected to a complexation process with a metal ion and a purification process, and the purification process comprises at least one step by a solvent extraction process, an anion exchange process, a membrane filtration process, an electrodialysis process or an adsorption process.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 67-43-6DP, Diethylenetriaminepentaacetic acid, reaction product with chitotrisaccharide 84354-98-3DP, reaction product with diethylenetriaminepentaacetic acid
 (process for producing metal complex of aminooligosaccharide derivative and purification by solvent extraction, ion-exchange chromatog., reverse osmosis, electrodialysis, or adsorption method.)

RN 67-43-6 USPATFULL

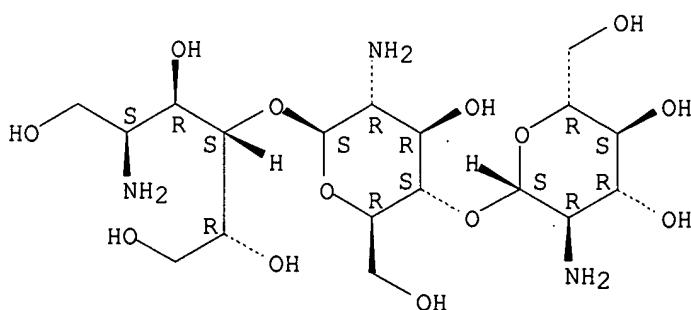
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 84354-98-3 USPATFULL

CN D-Glucitol, O-2-amino-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 4)-O-2-amino-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 4)-2-amino-2-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L59 ANSWER 2 OF 4 USPATFULL on STN

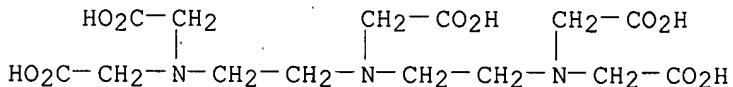
AN 2002:149297 USPATFULL
 TI Process for producing an amide compound
 IN Takano, Naoyuki, Osaka, JAPAN
 Nakamura, Daisaku, Ichihara-shi, JAPAN
 PI US 2002077456 A1 20020620
 AI US 2001-971929 A1 20011009 (9)
 PRAI JP 2000-310626 20001011
 DT Utility
 FS APPLICATION
 LREP BIRCH, STEWART, KOLASCH & BIRCH, LLP, P.O. Box 747, Falls Church, VA,
 22040-0747
 CLMN Number of Claims: 18
 ECL Exemplary Claim: 1
 DRWN No Drawings
 LN.CNT 514

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB There is disclosed a process for producing an amide compound, which
 process is characterized in that a compound having an amino group are
 reacted with a polyaminopolycarboxylic acid anhydride in the presence of
 the polyaminopolycarboxylic acid.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

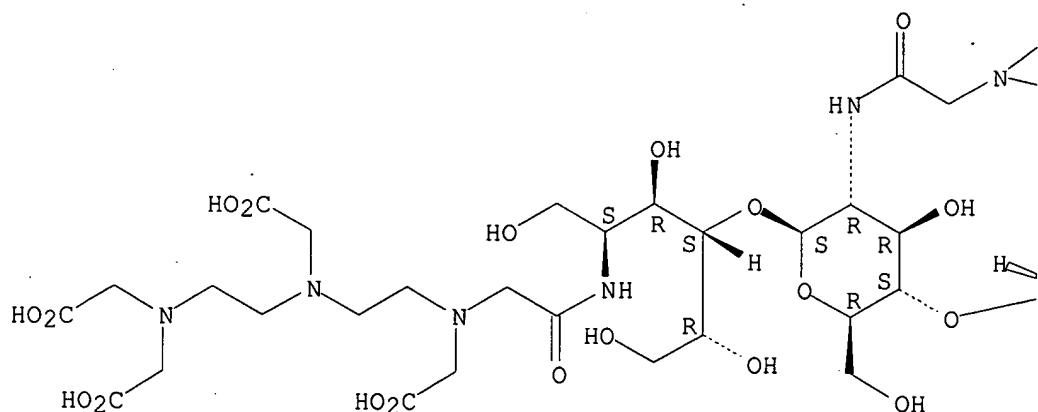
IT 67-43-6DP, Diethylenetriaminepentaacetic acid, human serum
 albumin conjugate 411229-68-0P 411229-71-5P
 411229-73-7P 411229-74-8P
 (process for producing an amide oligosaccharides which can be used as a
 diagnostic imaging agents)
 RN 67-43-6 USPATFULL
 CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA
 INDEX NAME)



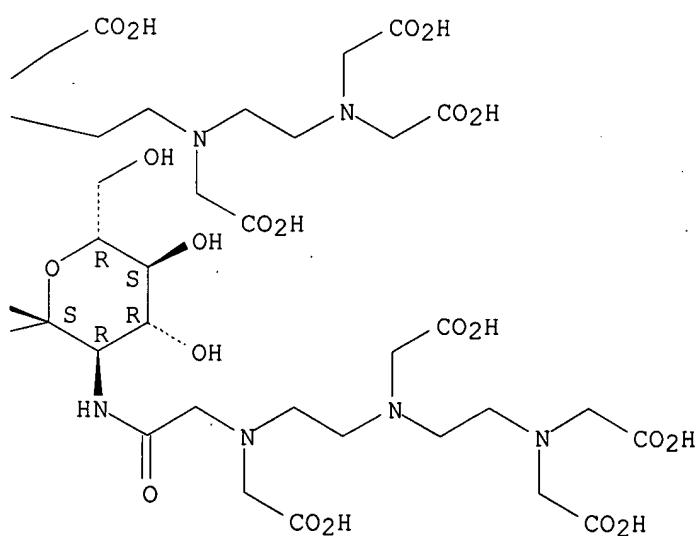
RN 411229-68-0 USPATFULL
 CN D-Glucitol, 0-2-[[[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 4)-0-2-[[[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 3)-2-[[[[2-[bis(carboxymethyl)amino]ethyl](carboxymethyl)amino]ethyl](carboxymethyl)amino]acetyl]amino]-2-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

PAGE 1-A



PAGE 1-B

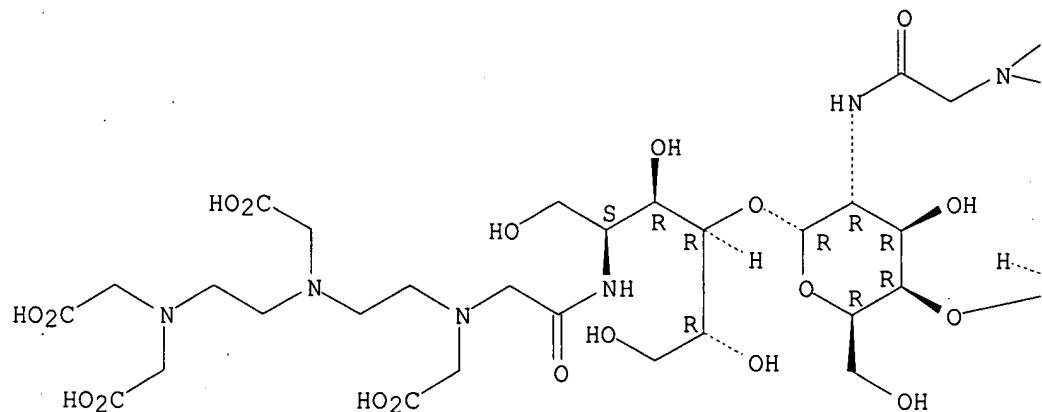


RN 411229-71-5 USPATFULL

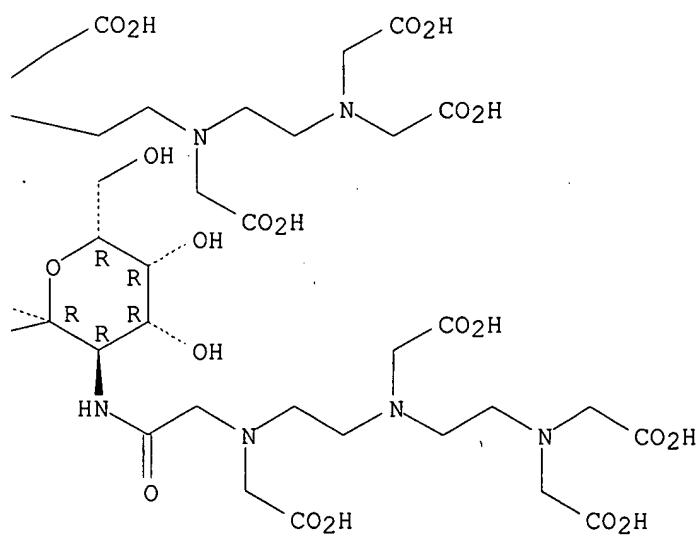
CN D-Galactitol, O-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl] (carboxymethyl)amino]ethyl] (carboxymethyl)amino]acetyl]amino]-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 4)-O-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl] (carboxymethyl)amino]ethyl] (carboxymethyl)amino]acetyl]amino]-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 3)-2-[[[2-[[2-[bis(carboxymethyl)amino]ethyl] (carboxymethyl)amino]ethyl] (carboxymethyl)amino]acetyl]amino]-2-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

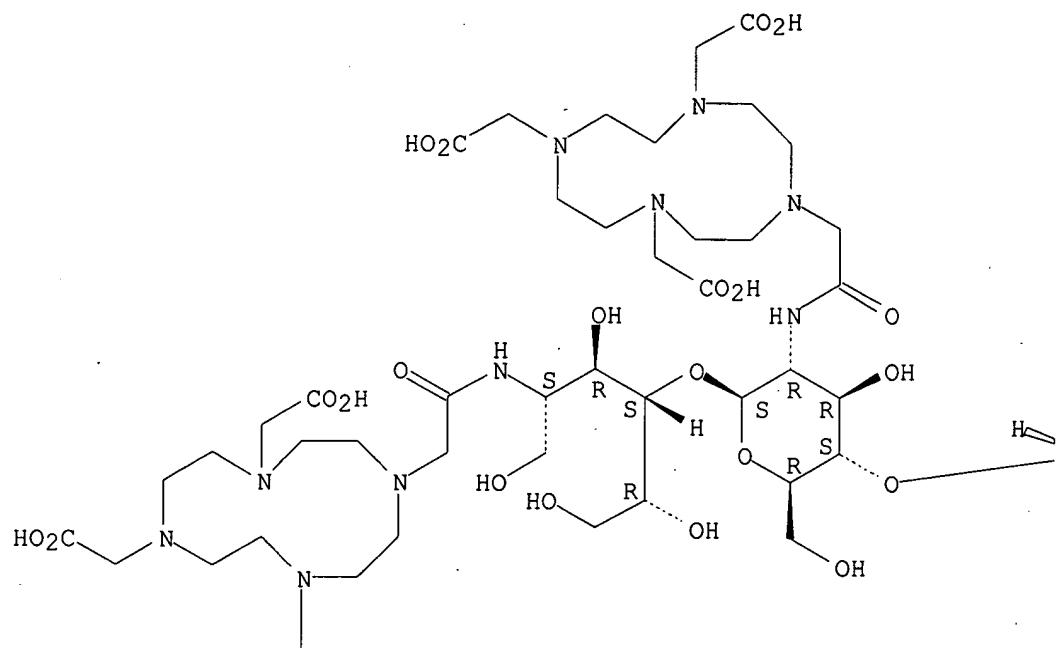


RN 411229-73-7 USPATFULL

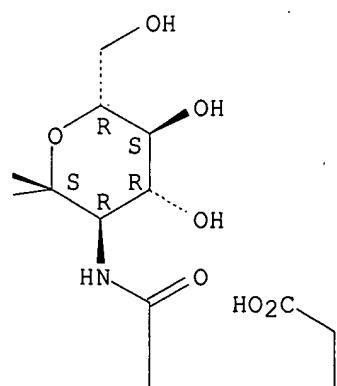
CN D-Glucitol, O-2-deoxy-2-[[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]amino]- β -D-glucopyranosyl-(1 \rightarrow 4)-O-2-deoxy-2-[[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]amino]- β -D-glucopyranosyl-(1 \rightarrow 3)-2-deoxy-2-[[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

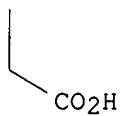
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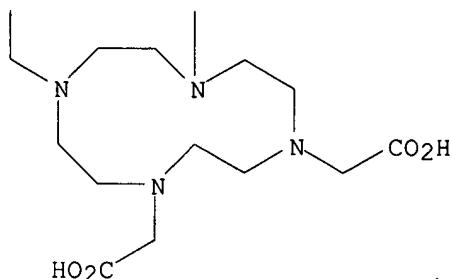
PAGE 1-B



PAGE 2-A



PAGE 2-B

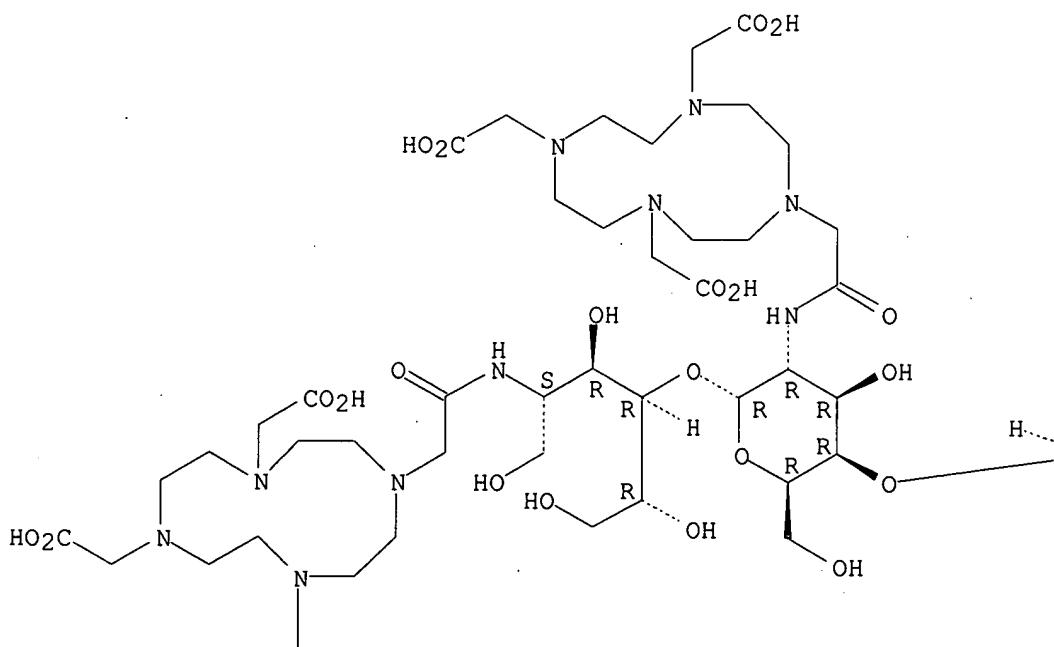


RN 411229-74-8 USPATFULL

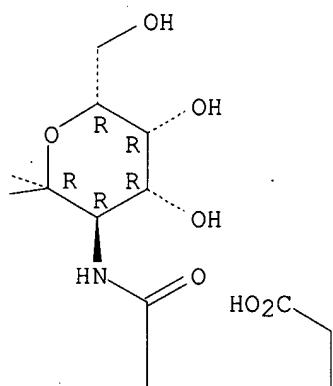
CN D-Galactitol, O-2-deoxy-2-[[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]amino]- α -D-galactopyranosyl-(1 \rightarrow 4)-O-2-deoxy-2-[[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]amino]- α -D-galactopyranosyl-(1 \rightarrow 3)-2-deoxy-2-[[[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

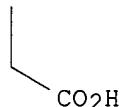
PAGE 1-A



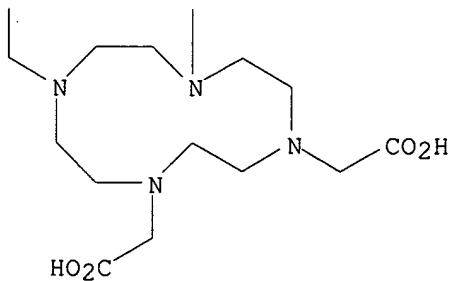
PAGE 1-B



PAGE 2-A

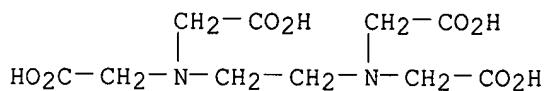


PAGE 2-B

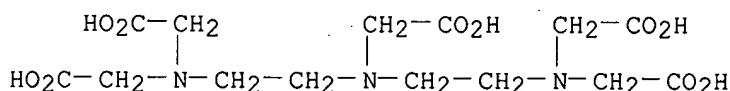


IT 60-00-4, Ethylenediaminetetraacetic acid, reactions
 67-43-6, Diethylenetriaminepentaacetic acid 23911-25-3,
 Ethylenediaminetetraacetic dianhydride 23911-26-4,
 Diethylenetriaminepentaacetic acid dianhydride 81329-81-9
 106145-40-8 132438-15-4 148690-82-8
 411229-70-4
 (process for producing an amide oligosaccharides which can be used as a

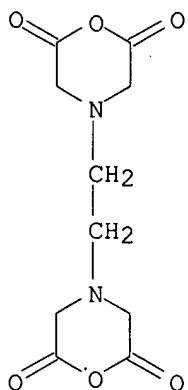
diagnostic imaging agents)
 RN 60-00-4 USPATFULL
 CN Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)- (9CI) (CA INDEX NAME)



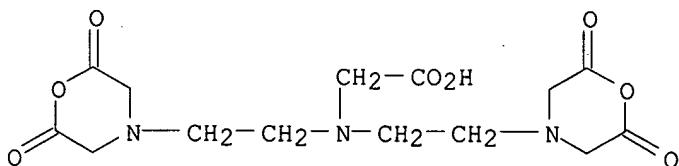
RN 67-43-6 USPATFULL
 CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)



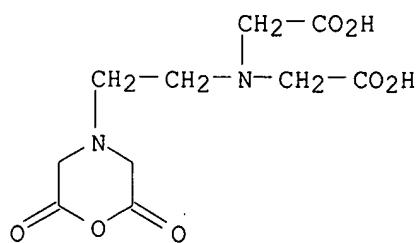
RN 23911-25-3 USPATFULL
 CN 2,6-Morpholinedione, 4,4'-(1,2-ethanediyl)bis- (9CI) (CA INDEX NAME)



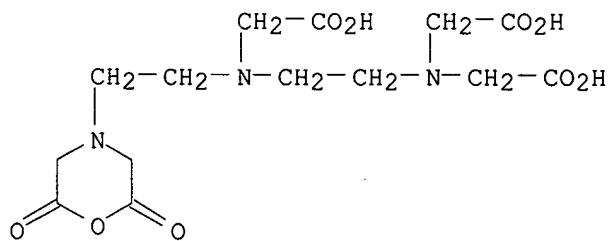
RN 23911-26-4 USPATFULL
 CN Glycine, N,N-bis[2-(2,6-dioxo-4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)



RN 81329-81-9 USPATFULL
 CN Glycine, N-(carboxymethyl)-N-[2-(2,6-dioxo-4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)

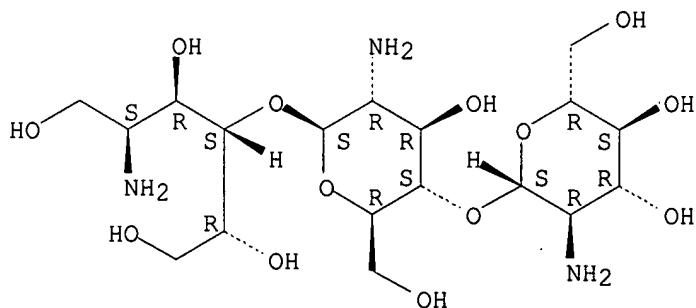


RN 106145-40-8 USPATFULL
 CN Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-[2-(2,6-dioxo-4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)



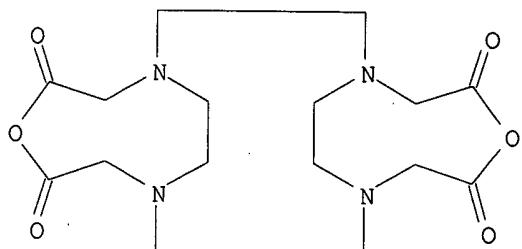
RN 132438-15-4 USPATFULL
 CN D-Glucitol, O-2-amino-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 4)-O-2-amino-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 4)-2-amino-2-deoxy-, trihydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

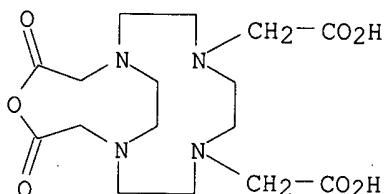


● 3 HCl

RN 148690-82-8 USPATFULL
 CN 7,16-Dioxa-1,4,10,13-tetraazatricyclo[11.5.2.24,10]docosane-6,8,15,17-tetrone (9CI) (CA INDEX NAME)



RN 411229-70-4 USPATFULL

CN 13-Oxa-1,4,7,10-tetraazabicyclo[8.5.2]heptadecane-4,7-diacetic acid,
12,14-dioxo- (9CI) (CA INDEX NAME)

L59 ANSWER 3 OF 4 USPATFULL on STN

AN 94:86163 USPATFULL

TI Low molecular weight polysaccharide complexes for X-ray imaging

IN Hashiguchi, Yuji, Sodegaura, Japan

Iwai, Kumiko, Ichihara, Japan

Seri, Shigemi, Ichihara, Japan

Kondo, Susumu, Ichihara, Japan

Azuma, Makoto, Ichihara, Japan

PA Nihon Medi-Physics Co., Ltd., Hyogo, Japan (non-U.S. corporation)

PI US 5352431 19941004

AI US 1993-119387 19930913 (8)

RLI Division of Ser. No. US 1992-952992, filed on 29 Sep 1992, now patented,
Pat. No. US 5271924

PRAI JP 1991-3258017 19911004

DT Utility

FS Granted

EXNAM Primary Examiner: Hollinden, Gary E.

CLMN Number of Claims: 9

ECL Exemplary Claim: 1

DRWN 2 Drawing Figure(s); 1 Drawing Page(s)

LN.CNT 554

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

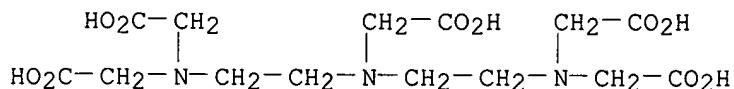
AB There is disclosed an imaging agent for diagnosis comprising a compound composed of a polynuclear type compound of the formula I or II, wherein each X is a hydrogen atom or a bifunctional ligand, of them are bifunctional ligand and m or n is an integer at least one metal ion being coordinated with at least one ligand moiety, said metal ion being selected from the group of metal ions having the atomic number of 21-29, 31, 32, 49 and 56-83.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

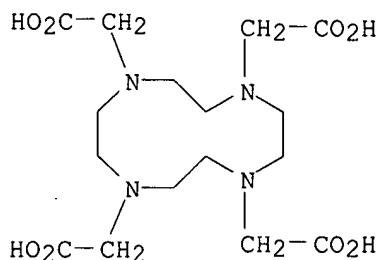
IT 67-43-6DP, Diethylenetriamine pentaacetic acid, reaction pr

with galactosamino-oligosaccharides, metal complexes 60239-18-1DP, 1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraacetic acid, reaction products with galactosamino-oligosaccharides, metal complexes 128174-30-1DP, reaction products with polyaminopolycarboxylic acid, metal complexes (preparation of, as imaging agent for diagnosis)

RN 67-43-6 USPATFULL
 CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)

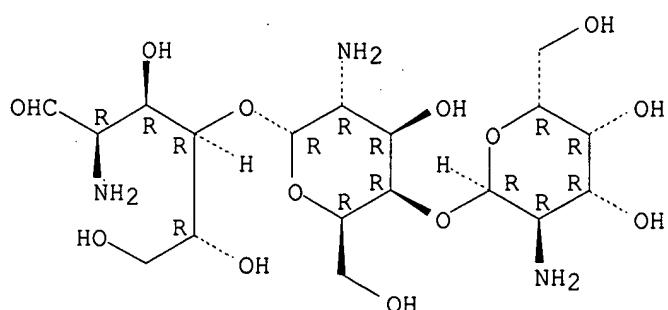


RN 60239-18-1 USPATFULL
 CN 1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraacetic acid (9CI) (CA INDEX NAME)



RN 128174-30-1 USPATFULL
 CN D-Galactose, O-2-amino-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 4)-O-2-amino-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 4)-2-amino-2-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L59 ANSWER 4 OF 4 USPATFULL on STN
 AN 93:106799 USPATFULL
 TI Low molecular weight polysaccharide complexes for nuclear magnetic resonance imaging
 IN Hashiguchi, Yuji, Sodegaura, Japan
 Iwai, Kumiko, Ichihara, Japan
 Seri, Shigemi, Ichihara, Japan

Kondo, Susumu, Ichihara, Japan

Azuma, Makoto, Ichihara, Japan

PA Nihon Medi-Physics Co., Ltd., Hyogo, Japan (non-U.S. corporation)

PI US 5271924 19931221

AI US 1992-952992 19920929 (7)

PRAI JP 1991-258017 19911004

DT Utility

FS Granted

EXNAM Primary Examiner: Hollrah, Glennon A.; Assistant Examiner: Hollinden, Gary E.

CLMN Number of Claims: 8

ECL Exemplary Claim: 1

DRWN 2 Drawing Figure(s); 1 Drawing Page(s)

LN.CNT 543

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

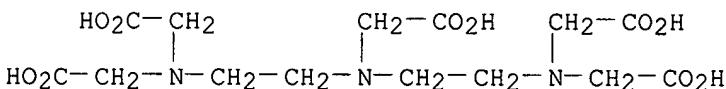
AB There is disclosed an imaging agent for diagnosis comprising a compound composed of a polynuclear type compound of the formula I or II: ##STR1## wherein each X is a hydrogen atom or a bifunctional ligand, at least one of them are bifunctional ligand and m or n is an integer of 1 to 6, and at least one metal ion being coordinated with at least one bifunctional ligand moiety, said metal ion being selected from the group consisting of metal ions having the atomic number of 21-29, 31, 32, 37-39, 42-44, 49 and 56-83.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 67-43-6DP, Diethylenetriamine pentaacetic acid, reaction products with galactosamino-oligosaccharides, metal complexes 60239-18-1DP, 1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraacetic acid, reaction products with galactosamino-oligosaccharides, metal complexes 128174-30-1DP, reaction products with polyaminopolycarboxylic acid, metal complexes (preparation of, as imaging agent for diagnosis)

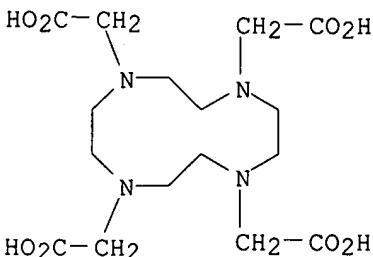
RN 67-43-6 USPATFULL

CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 60239-18-1 USPATFULL

CN 1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraacetic acid (9CI) (CA INDEX NAME)

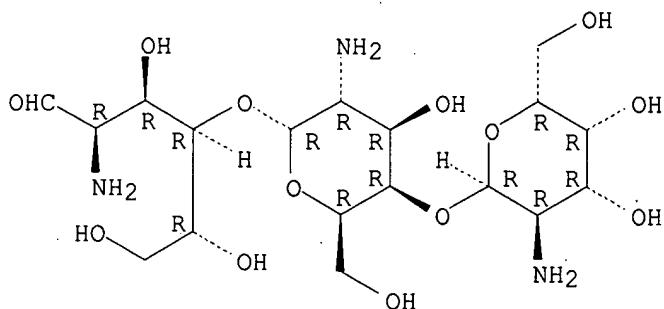


RN 128174-30-1 USPATFULL

CN D-Galactose, O-2-amino-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 4)-O-2-

amino-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 4)-2-amino-2-deoxy-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> => fil reg

FILE 'REGISTRY' ENTERED AT 07:22:17 ON 19 OCT 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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STRUCTURE FILE UPDATES: 18 OCT 2006 HIGHEST RN 910777-14-9
DICTIONARY FILE UPDATES: 18 OCT 2006 HIGHEST RN 910777-14-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

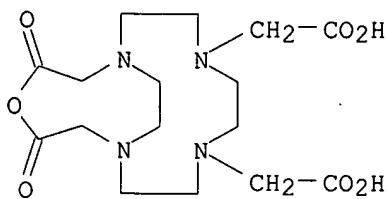
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> d ide can tot 161

L61 ANSWER 1 OF 12 REGISTRY COPYRIGHT 2006 ACS on STN
RN 411229-70-4 REGISTRY
ED Entered STN: 06 May 2002
CN 13-Oxa-1,4,7,10-tetraazabicyclo[8.5.2]heptadecane-4,7-diacetic acid,
12,14-dioxo- (9CI) (CA INDEX NAME)
MF C16 H26 N4 O7
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

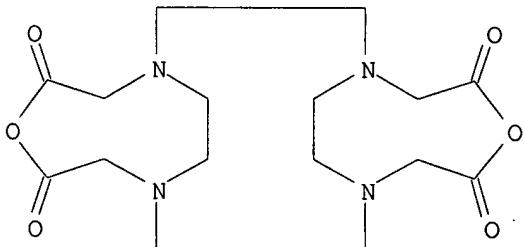


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:325778

L61 ANSWER 2 OF 12 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 148690-82-8 REGISTRY
 ED Entered STN: 15 Jul 1993
 CN 7,16-Dioxa-1,4,10,13-tetraazatricyclo[11.5.2.24,10]docosane-6,8,15,17-tetrone (9CI) (CA INDEX NAME)
 MF C16 H24 N4 O6
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:325778

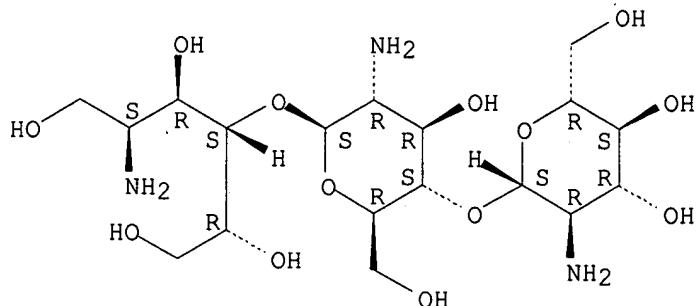
REFERENCE 2: 121:103233

REFERENCE 3: 119:66757

L61 ANSWER 3 OF 12 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 132438-15-4 REGISTRY
 ED Entered STN: 08 Mar 1991
 CN D-Glucitol, O-2-amino-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 4)-O-2-amino-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 4)-2-amino-2-deoxy-, trihydrochloride (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C18 H37 N3 O13 . 3 Cl H
 SR CA

LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL
 CRN (84354-98-3)

Absolute stereochemistry.



● 3 HCl

3 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

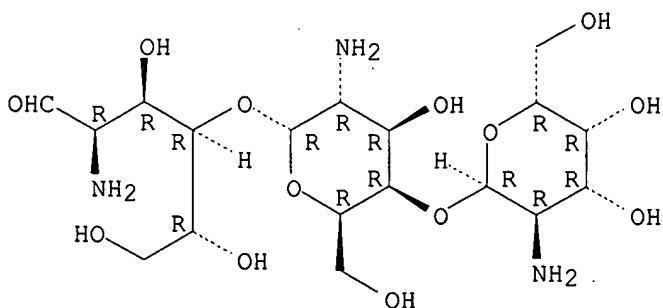
REFERENCE 1: 145:40237

REFERENCE 2: 136:325778

REFERENCE 3: 114:122944

L61 ANSWER 4 OF 12 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 128174-30-1 REGISTRY
 ED Entered STN: 13 Jul 1990
 CN D-Galactose; O-2-amino-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 4)-O-2-amino-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 4)-2-amino-2-deoxy- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C18 H35 N3 O13
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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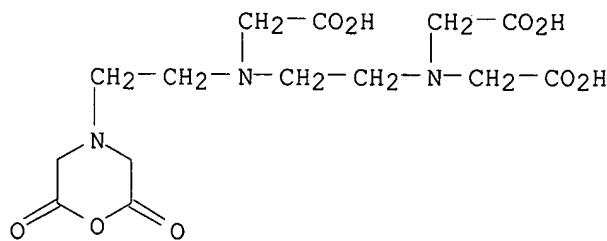
REFERENCE 2: 119:117749

REFERENCE 3: 117:33591

REFERENCE 4: 113:59770

REFERENCE 5: 113:59769

L61 ANSWER 5 OF 12 'REGISTRY' COPYRIGHT 2006 ACS on STN
 RN 106145-40-8 REGISTRY
 ED Entered STN: 17 Jan 1987
 CN Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-[2-(2,6-dioxo-4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)
 MF C14 H21 N3 O9
 CI COM
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

17 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 17 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 144:183352

REFERENCE 2: 140:151915

REFERENCE 3: 136:325778

REFERENCE 4: 135:335174

REFERENCE 5: 133:220352

REFERENCE 6: 130:7447

REFERENCE 7: 123:93454

REFERENCE 8: 123:4743

REFERENCE 9: 119:220703

REFERENCE 10: 117:43667

L61 ANSWER 6 OF 12 REGISTRY COPYRIGHT 2006 ACS on STN

RN 84354-98-3 REGISTRY

ED Entered STN: 16 Nov 1984

CN D-Glucitol, O-2-amino-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 4)-O-2-amino-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 4)-2-amino-2-deoxy- (9CI)
(CA INDEX NAME)

OTHER NAMES:

CN Chitotriitol

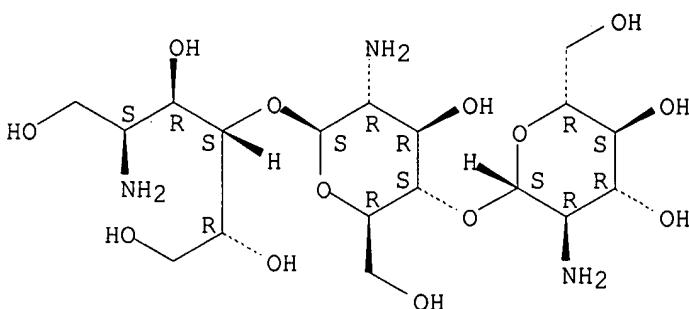
FS STEREOSEARCH

MF C18 H37 N3 O13

CI COM

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 142:177045

REFERENCE 2: 139:149878

REFERENCE 3: 137:87494

REFERENCE 4: 116:214814

REFERENCE 5: 113:147677

REFERENCE 6: 98:67748

L61 ANSWER 7 OF 12 REGISTRY COPYRIGHT 2006 ACS on STN

RN 81329-81-9 REGISTRY

ED Entered STN: 16 Nov 1984

CN Glycine, N-(carboxymethyl)-N-[2-(2,6-dioxo-4-morpholinyl)ethyl]- (9CI)
(CA INDEX NAME)

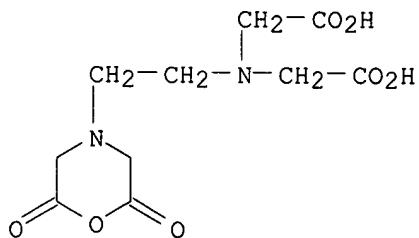
OTHER NAMES:

CN EDTA monoanhydride

CN Ethylenediaminetetraacetic acid monoanhydride

MF C10 H14 N2 O7

LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

21 REFERENCES IN FILE CA (1907 TO DATE)
 21 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 144:345523

REFERENCE 2: 144:183352

REFERENCE 3: 144:120091

REFERENCE 4: 143:454505

REFERENCE 5: 141:309224

REFERENCE 6: 139:45855

REFERENCE 7: 136:355448

REFERENCE 8: 136:325778

REFERENCE 9: 132:123091

REFERENCE 10: 129:339879

L61 ANSWER 8 OF 12 REGISTRY COPYRIGHT 2006 ACS on STN

RN 60239-18-1 REGISTRY

ED Entered STN: 16 Nov 1984

CN 1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraacetic acid (9CI) (CA INDEX
NAME)

OTHER NAMES:

CN 1,4,7,10-Tetraazacyclododecane-N,N',N'',N'''-tetraacetic acid

CN DOTA

CN NSC 681107

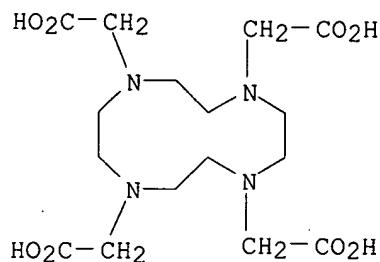
CN Tetraxetan

DR 105416-43-1

MF C16 H28 N4 O8

CI COM

LC STN Files: ADISNEWS, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAPLUS,
CASREACT, CHEMCATS, CIN, CSCHEM, EMBASE, GMELIN*, IPA, MEDLINE, PROMT,
TOXCENTER, USAN, USPAT2, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

567 REFERENCES IN FILE CA (1907 TO DATE)
 355 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 571 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:331514

REFERENCE 2: 145:328360

REFERENCE 3: 145:291068

REFERENCE 4: 145:287565

REFERENCE 5: 145:278265

REFERENCE 6: 145:249433

REFERENCE 7: 145:243941

REFERENCE 8: 145:189981

REFERENCE 9: 145:183323

REFERENCE 10: 145:130695

L61 ANSWER 9 OF 12 REGISTRY COPYRIGHT 2006 ACS on STN

RN 23911-26-4 REGISTRY

ED Entered STN: 16 Nov 1984

CN Glycine, N,N-bis[2-(2,6-dioxo-4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,6-Morpholinedione, 4,4'-([(carboxymethyl)imino]diethylene)di- (8CI)

CN Glycine, N,N-bis[2-(2,6-dioxomorpholino)ethyl]- (8CI)

OTHER NAMES:

CN 1,5-Bis(2,6-dioxomorpholino)-3-azapentane-3-acetic acid

CN Cyclic DTPA anhydride

CN Diethylenetriamine-N,N,N',N'',N'''-pentaacetic acid N,N'''-dianhydride

CN Diethylenetriaminepentaacetic acid dianhydride

CN Diethylenetriaminepentaacetic bisanhydride

CN Diethylenetriaminepentaacetic dianhydride

CN DTPA anhydride

CN DTPA cyclic anhydride

CN DTPA dianhydride

CN N,N-Bis[2-(2,6-dioxo-4-morpholinyl)ethyl]glycine

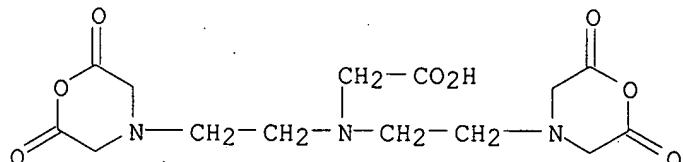
CN NSC 379317

DR 167271-36-5, 120195-90-6, 119895-99-7, 111535-62-7, 150909-78-7,
 291290-07-8

MF C14 H19 N3 O8

CI COM

LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CSCHEM, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

541 REFERENCES IN FILE CA (1907 TO DATE)
 100 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 541 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:336185

REFERENCE 2: 145:330714

REFERENCE 3: 145:330664

REFERENCE 4: 145:265850

REFERENCE 5: 145:140473

REFERENCE 6: 145:139987

REFERENCE 7: 145:130752

REFERENCE 8: 145:120046

REFERENCE 9: 145:119464

REFERENCE 10: 145:109915

L61 ANSWER 10 OF 12 REGISTRY COPYRIGHT 2006 ACS on STN

RN 23911-25-3 REGISTRY

ED Entered STN: 16 Nov 1984

CN 2,6-Morpholinedione, 4,4'-(1,2-ethanediyl)bis- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,6-Morpholinedione, 4,4'-ethylenedi- (8CI)

OTHER NAMES:

CN 1,2-Bis[2,6-dioxo-4-morpholiny]ethane

CN 4,4'-Ethylenebis(2,6-dioxomorpholine)

CN 4,4'-Ethylenebis(2,6-morpholinedione)

CN EDTA bisanhydride

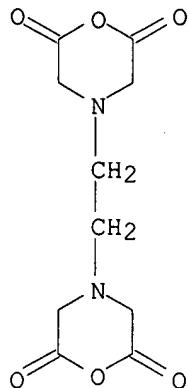
CN EDTA dianhydride

CN Ethylenediaminetetraacetic acid dianhydride

CN Ethylenediaminetetraacetic dianhydride

CN Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, cyclic

DR N,N:N',N'-dianhydride
 MF 122219-64-1, 151805-59-3
 MF C10 H12 N2 O6
 CI COM
 LC STN Files: AGRICOLA, BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS,
 CHEMLIST, CIN, CSCHEM, IFICDB, IFIPAT, IFIUDB, MSDS-OHS, TOXCENTER,
 USPAT2, USPATFULL
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

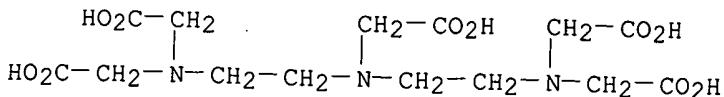
206 REFERENCES IN FILE CA (1907 TO DATE)
 27 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 206 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:28182
 REFERENCE 2: 144:482176
 REFERENCE 3: 144:332328
 REFERENCE 4: 144:265668
 REFERENCE 5: 144:260367
 REFERENCE 6: 144:224778
 REFERENCE 7: 144:135265
 REFERENCE 8: 144:120091
 REFERENCE 9: 144:57679
 REFERENCE 10: 143:359997

L61 ANSWER 11 OF 12 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 67-43-6 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA
 INDEX NAME)

OTHER NAMES:

CN 1,1,4,7,7-Diethylenetriaminepentaacetic acid
 CN 3,6,9-Triazaundecanedioic acid, 3,6,9-tris(carboxymethyl)-
 CN Acetic acid, 2,2',2'',2'''-[(carboxymethyl)imino]bis(2,1-
 ethanediylnitrilo)]tetrakis-
 CN Chel 330 acid
 CN Chel DTPA
 CN Clewat DA
 CN Complexon V
 CN Dabeersen 503
 CN Detapac
 CN Detarex
 CN DETP
 CN DETPA
 CN Diethylenetriamine-N,N,N',N'',N'''-pentaacetic acid
 CN Diethylenetriaminepentaacetic acid
 CN Dissolvine D
 CN DPTA
 CN DTPA
 CN Hamp-Ex Acid
 CN Monaquest CAI
 CN N,N-Bis[2-[bis(carboxymethyl)amino]ethyl]glycine
 CN NSC 7340
 CN Pentacarboxymethyl diethylenetriamine
 CN Pentetic acid
 CN Tittriplex V
 CN [(Carboxymethyl)imino]bis(ethylenenitrilo)]tetraacetic acid
 DR 782415-12-7, 803683-39-8, 573987-64-1, 13407-13-1, 6889-50-5, 7575-40-8,
 25737-54-6, 84932-15-0, 49758-21-6
 MF C14 H23 N3 O10
 CI COM
 SR CA
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS, BIOTECHNO, CA,
 CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB,
 DDFU, DETHERM*, DRUGU, EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB, IPA,
 MEDLINE, MRCK*, MSDS-OHS, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER,
 ULIDAT, USAN, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

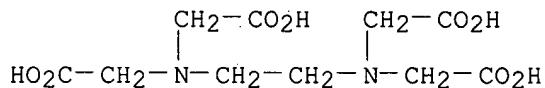
6494 REFERENCES IN FILE CA (1907 TO DATE)
 2017 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 6512 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 145:340826
 REFERENCE 2: 145:335242
 REFERENCE 3: 145:327226

REFERENCE 4: 145:326331
REFERENCE 5: 145:321061
REFERENCE 6: 145:313010
REFERENCE 7: 145:309038
REFERENCE 8: 145:308204
REFERENCE 9: 145:304953
REFERENCE 10: 145:300382

L61 ANSWER 12 OF 12 REGISTRY COPYRIGHT 2006 ACS on STN
RN 60-00-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)- (9CI) (CA INDEX NAME),
OTHER CA INDEX NAMES:
CN Acetic acid, (ethylenedinitrilo)tetra- (8CI)
OTHER NAMES:
CN 3,6-Diazaoctanedioic acid, 3,6-bis(carboxymethyl)-
CN 62: PN: US20050026181 PAGE: 33 claimed protein
CN Acetic acid, 2,2',2'',2'''-(1,2-ethanediyldinitrilo)tetrakis-
CN Acroma DH 700
CN Celon A
CN Celon ATH
CN Cheelox
CN Chelest 3A
CN Chemcolox 340
CN Clewat TAA
CN Complexon II
CN Dissolvine E
CN Dissolvine Z
CN Edathamil
CN Edetic acid
CN EDTA
CN EDTA (chelating agent)
CN Endrate
CN Ethylene-N,N'-biscarboxymethyl-N,N'-diglycine
CN Ethylenediamine-N,N,N',N'-tetraacetic acid
CN Ethylenediaminetetraacetic acid
CN Ethylenedinitrilotetraacetic acid
CN Gluma Cleanser
CN Havidote
CN ICRF 185
CN Metaquest A
CN N,N'-1,2-Ethanediyl-bis-N-(carboxymethyl)glycine
CN Nervanaid B acid
CN NSC 97243
CN NSC 97404
CN Nullapon B acid
CN Nullapon BF acid
CN Perma Kleer 50 acid
CN Quastal Special
CN Sequestrene AA
CN Sequestrene K 4
CN Sequestric acid
CN Sequestrol

CN Techrun DO
 CN Tittriplex
 CN Tittriplex II
 CN Trilon BS
 CN Trilon BW
 CN Versene
 CN YD 30
 CN Zonon AO
 DR 13440-78-3, 20539-27-9, 94108-75-5, 26627-46-3, 30485-87-1, 30485-88-2,
 30485-90-6, 32757-10-1, 161122-33-4, 402925-67-1, 675141-16-9
 MF C10 H16 N2 O8
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS,
 BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU,
 EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*,
 IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, PIRA, PROMT,
 PROUSDDR, PS, RTECS*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2,
 USPATFULL, VETU, VTB
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**, WHO
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

30115 REFERENCES IN FILE CA (1907 TO DATE)
 3907 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 30241 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 18 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 145:347396
 REFERENCE 2: 145:347386
 REFERENCE 3: 145:345010
 REFERENCE 4: 145:343831
 REFERENCE 5: 145:342641
 REFERENCE 6: 145:342512
 REFERENCE 7: 145:342504
 REFERENCE 8: 145:342327
 REFERENCE 9: 145:342301
 REFERENCE 10: 145:341899

=> d his

(FILE 'HOME' ENTERED AT 06:18:59 ON 19 OCT 2006)
 SET COST OFF

FILE 'HCA' ENTERED AT 06:21:20 ON 19 OCT 2006
 L1 1 S US20020077456/PN OR (US2001-971929# OR JP2000-310626) /AP, PRN
 E TAKANO/AU
 E TAKANO N/AU
 L2 91 S E3,E18
 E NAOYUKI/AU
 E NAO YUKI/AU
 E NAKAMURA/AU
 L3 4 S E3
 E NAKAMURA D/AU
 L4 48 S E3,E7,E8
 E NAKAMURA NAME/AU
 E DAISAKU/AU
 E NIHON/PA,CS
 E NIHON MED/PA,CS
 L5 108 S E14-E26
 E SUMITO/PA,CS
 L6 93032 S E55,E56 OR SUMITOMO?/PA,CS
 SEL RN L1

FILE 'REGISTRY' ENTERED AT 06:27:55 ON 19 OCT 2006

L7 22 S E1-E22
 L8 6 S L7 AND (C60H100N12040 OR C48H79N9034 OR C66H115N15034)
 L9 7 S (C60H100N12040 OR C48H79N9034 OR C66H115N15034) NOT L8
 L10 13 S L8,L9
 L11 1 S 67-43-6
 L12 1 S 60-00-4
 L13 1 S 60239-18-1
 L14 1 S 23911-25-3
 L15 1 S 23911-26-4
 L16 2 S L7 AND NC2OC2/ES NOT L14,L15
 L17 2 S 148690-82-8 OR 411229-70-4
 L18 5 S 115724-92-0 OR 411229-75-9 OR 151677-09-7 OR 138885-99-1 OR 1
 L19 3 S L7 NOT L8-L18
 L20 1 S 84354-98-3
 L21 1 S 84354-98-3/CRN
 L22 2 S L20,L21
 L23 2 S C18H37N3O13/MF
 L24 1 S L23 NOT L22
 L25 0 S 835626-40-9/CRN
 L26 3 S L22,L23,L24
 L27 STR
 L28 50 S L27
 L29 1204 S L27 FUL
 SAV L29 SATYA971/A
 L30 2 S L29 AND NC2NC2NC2NC2/ES
 L31 1 S L29 AND NC2OC2/ES
 L32 STR
 L33 0 S L32 SAM SUB=L29
 L34 STR L32
 L35 1 S L34 SAM SUB=L29
 L36 STR L34
 L37 1 S L36 SAM SUB=L29
 L38 20 S L36 FUL SUB=L29
 SAV L38 SATYA971A/A
 L39 11 S L38 NOT L10
 L40 0 S L39 NOT (C6/ES OR P/ELS)

L41 2 S L10 NOT L30,L38
L42 9 S L10 AND L38
L43 0 S L29 AND (63215 OR 55514)/RID
L44 2 S L27 CSS SAM SUB=L29
L45 27 S L27 CSS FUL SUB=L29
SAV L45 SATYA971B/A
L46 9 S L45 AND 1/NC
L47 17 S L45 NOT L26,L46
SEL RN 7 16 17
L48 3 S E23-E25
L49 13 S L26,L46,L48

FILE 'HCAPLUS' ENTERED AT 07:17:06 ON 19 OCT 2006

L50 2 S L30 OR L42
L51 3 S L49 AND L11-L13
L52 1 S L49 AND L14-L17
L53 4 S L50,L51,L52
L54 3 S L53 AND L1-L6
L55 4 S L53,L54

FILE 'USPATFULL' ENTERED AT 07:18:27 ON 19 OCT 2006

L56 1 S L30 OR L42
L57 4 S L49 AND L11-L13
L58 1 S L49 AND L14-L17
L59 4 S L56-L58

FILE 'REGISTRY' ENTERED AT 07:19:08 ON 19 OCT 2006

L60 11 S L30 OR L42

FILE 'HCAPLUS' ENTERED AT 07:20:10 ON 19 OCT 2006

FILE 'USPATFULL' ENTERED AT 07:20:33 ON 19 OCT 2006

FILE 'HCAPLUS' ENTERED AT 07:21:39 ON 19 OCT 2006
SEL HIT RN L55

FILE 'REGISTRY' ENTERED AT 07:22:02 ON 19 OCT 2006

L61 12 S E26-E48 NOT L30,L42

FILE 'REGISTRY' ENTERED AT 07:22:17 ON 19 OCT 2006

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